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PHOTOGRAPHIC INTERPRETATION REPORT

**SAM TEST RANGE  
KAPUSTIN YAR/VLADIMIROVKA  
MISSILE TEST CENTER  
USSR**

**PART I**

SEPTEMBER  
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41 PAGES

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PHOTOGRAPHIC INTERPRETATION REPORT

# **SAM TEST RANGE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER USSR**

**PART I**

SEPTEMBER 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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## PREFACE

This report is in partial response to CIA requirement C-DI6-83,665, which requested a basic report completely updating the latest comprehensive report (PIC/JR-1008/61, March 1961) 1/ of the facilities at the Kapustin Yar SAM Test Range, USSR. This requirement includes a request for detailed photo analysis of the following areas:

- a. SAM Launch Complex;
- b. SAM Launch Complex Support Areas;
- c. SAM Instrumentation Sites;
- d. Electronics Test Facility (formerly designated Electronics Research and Development Area);
- e. Kapustin Yar Airfield;
- f. SAM Base Support Complex.

This report satisfies part (a) above, which encompasses the most extensive portion of the requirement. Three forthcoming reports will cover the remainder of the SAM rangehead facilities.

Photography used in the preparation of this report includes

Mission numbers and related photographic data may be obtained from the references at the end of the report; therefore dates alone are referenced in textual chronologies.

The precision target plots included in this report are a mathematically rectified projection of the area. Plots are compiled by utilizing precision mensuration instruments, and image interpretation is performed with the aid of stereoscopic viewing equipment. Identifiable image points are measured and their coordinate values mathematically transformed by computer. This transformation corrects for camera and attitude (pitch, roll, and yaw) induced distortions but does not correct for displacement due to ground relief and object height.

These target plots represent the most accurate data compiled to date, but the user is cautioned to exercise care in scaling distances or determining azimuths from these plots, inasmuch as relief can introduce errors in distance and alignment. The horizontal dimensions given are accurate to within plus or minus 5 feet or 5 percent, whichever is greater.

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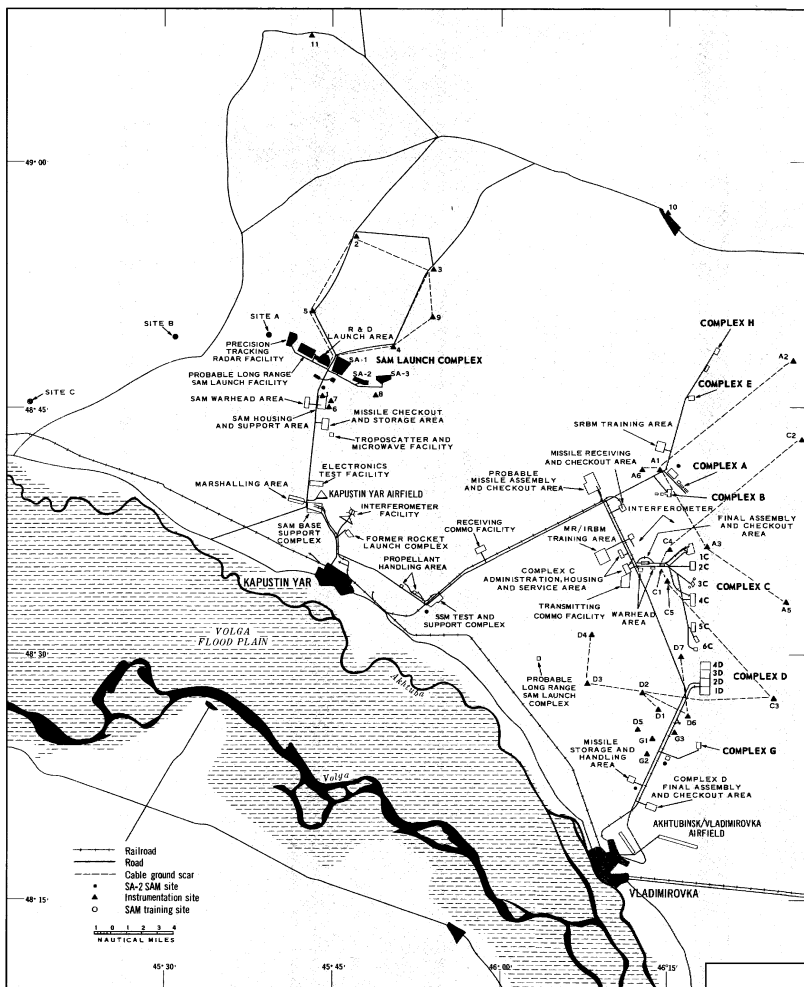


FIGURE 1. KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR.

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## INTRODUCTION

The Kapustin Yar Surface-to-Air Missile Test Range is part of the Kapustin Yar/Vladimirovka Missile Test Center (KY/Vlad MTC), USSR. It is approximately 50 nautical miles (nm) east of Volgograd (Stalingrad), on the eastern side of the Volga River. The SAM Rangehead, located north of Kapustin Yar and generally west of the surface-to-surface missile rangehead, consists of a SAM launch complex, 3 SAM training sites, a SAM warhead area, a SAM housing and support area, a missile checkout and storage area, a troposcatter and microwave communications facility, an electronics test facility, an airfield, a SAM marshalling area, a SAM base support and housing area, 11 instrumentation sites, and an operational SA-2 site.

This report covers the SAM launch complex and the 3 SAM training sites located along the western periphery of the SAM rangehead (Figure 1). The rectified line drawings and measurements presented in this report are based primarily on photography of [redacted]. However, other photography was utilized where [redacted] coverage was lacking or where other [redacted] photography provided better mensural data.

A number of significant changes have occurred at the SAM rangehead since the latest comprehensive report, 1/ which was based primarily on [redacted] photography accomplished in [redacted]. Among these changes within the SAM launch complex are the addition of new launch sites at the SA-2 and SA-3 launch areas, the addition of new launch sites at the R & D launch area, along with a change in function of 1 of its sites present in [redacted] the construction of a probable long range SAM launch facility, the construction of a precision tracking radar facility, movement of the YO YO Radar at the R & D YO YO Guidance Site, and the construction of the 3 SAM training sites. This report contains a description of facilities and activity, in chronological sequence, and includes rectified line drawings, photographs, and photogrammetric data on components of the SAM launch complex and the 3 SAM training sites. Tabular chronologies of activity, which denote the presence and identification of missiles and/or missile-related equipment observed at a specific area, are presented separately from the text. These tables are based exclusively on [redacted] photography and are designated to show the type and degree of activity at the time of specified coverage.

Annotated photos and rectified line drawings are shown for components of the SAM launch complex and 2 of the 3 SAM training sites. SAM Training Site C, which has been covered by [redacted] photography only, is shown on an annotated photo without a rectified line drawing.

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FIGURE 2. SAM LAUNCH COMPLEX, KY. V. L. A. D. M. T. C.

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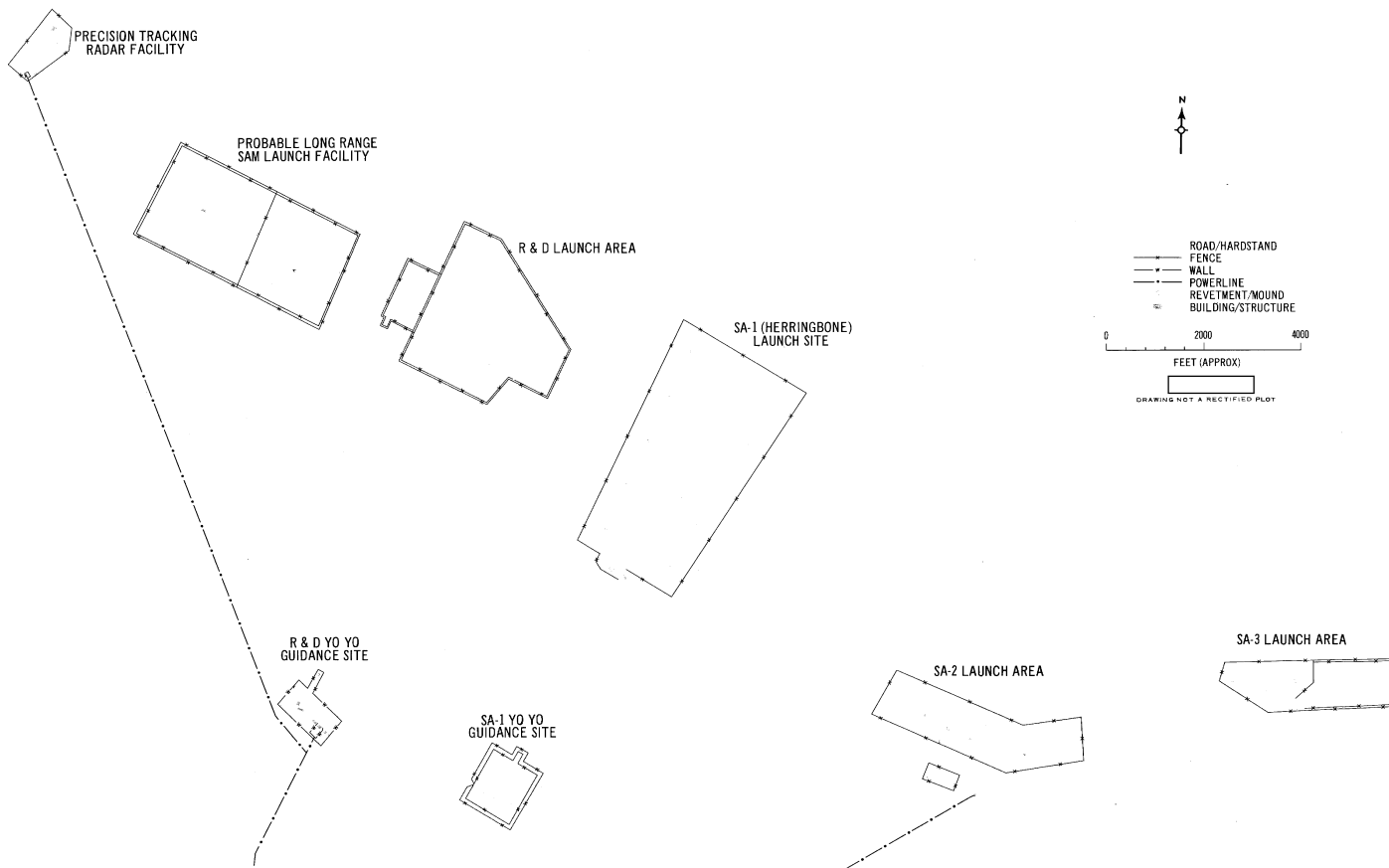


FIGURE 3. SAM LAUNCH COMPLEX, KY/VLAD MTC.

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## SAM LAUNCH COMPLEX

The SAM Launch Complex (Figures 2 and 3) is located along 2 all-weather roads that branch eastward and westward from the northern terminus of the all-weather SAM Launch Complex main service road. It includes the following 8 components: the Precision Tracking Radar Facility (included within the SAM launch complex because of its location, rather than because of its function); the Probable Long Range SAM Launch Facility; the R & D Launch Area and its associated YO YO Guidance Site; the SA-1 (herring-bone) Launch Site and its associated YO YO Guidance Site; the SA-2 Launch Area; and the SA-3 Launch Area.

## PRECISION TRACKING RADAR FACILITY

The Precision Tracking Radar Facility (Figures 3, 4, and 5) is at the terminus of the western branch of the SAM Launch Complex main service road at approximately 48-49N 45-42E. The facility (formerly designated probable SAM launch area) 2/ was first observed under construction in [redacted] but was not present in [redacted]. There is no photographic coverage of the facility between these 2 dates. The major portion of the facility was under construction by [redacted] with some of its structures probably near completion.

By [redacted] photography revealed a probable transformer yard and 2 electrical power transmission towers which connect a powerline that formerly terminated at the southern portion of the R & D YO YO Guidance Site (Figure 3 and 5). Although not readily identifiable until [redacted] the probable transformer yard and transmission towers could have been present or under construction as early as [redacted]. The powerline entering the facility is estimated to be 35 kv.

In [redacted] a 40-foot-diameter radar dish (Figure 6) could be identified atop the associated drive-through structure (item 6, Figure 5). At that time, the identification of the facility was changed from probable SAM launch area to Precision Tracking Radar Facility. However a study of [redacted] re-

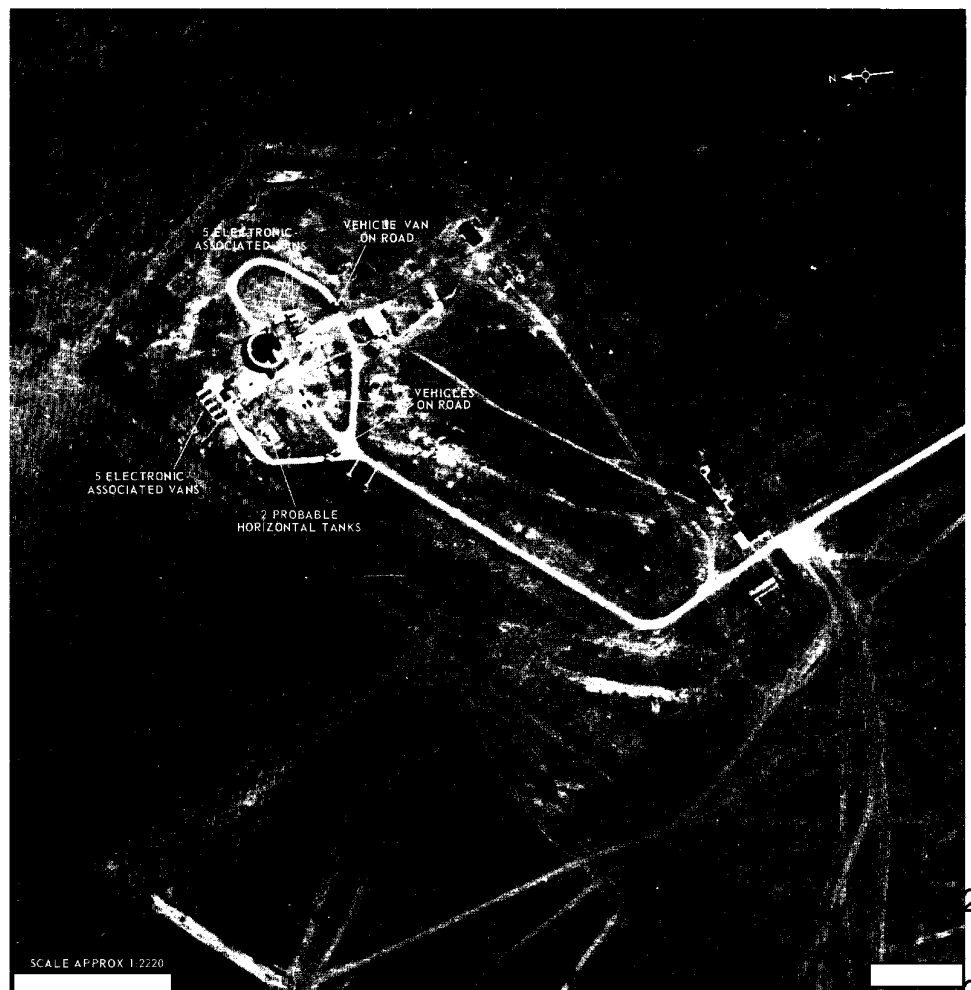


FIGURE 4. PRECISION TRACKING RADAR FACILITY.

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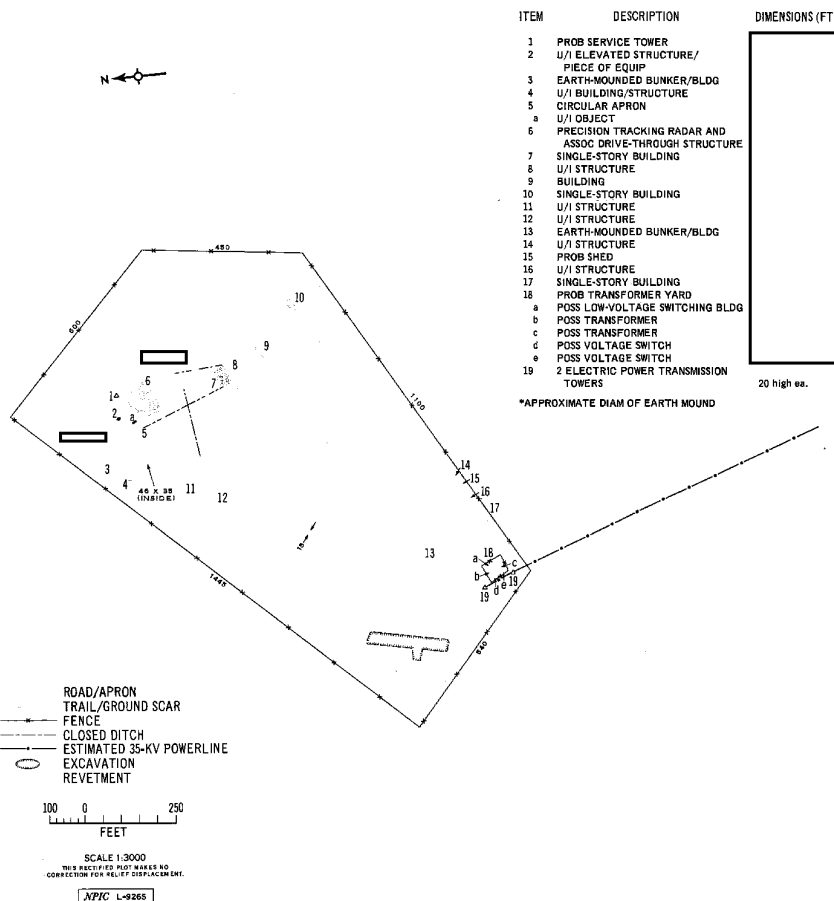


FIGURE 5. PRECISION TRACKING RADAR FACILITY.

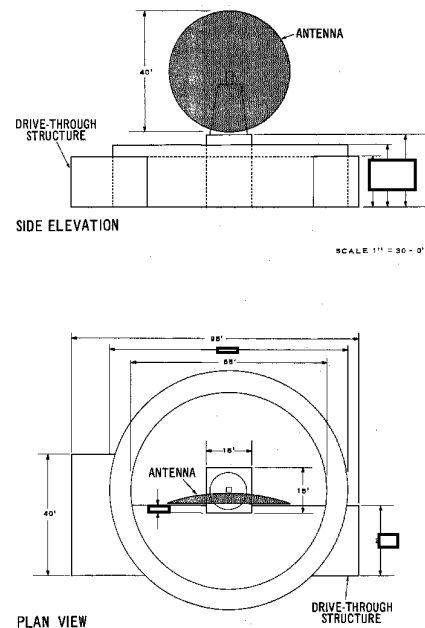


FIGURE 6. PRECISION TRACKING RADAR ON ASSOCIATED DRIVE-THROUGH STRUCTURE.

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vealed that the radar dish atop the associated drive-through structure probably was present as early as [redacted]. The dish appears to be mounted on a pedestal in the center of the ring-shaped structure and is attached so as to allow the dish to rotate from a near horizontal boresight position to a vertical or stowed position.

As of [redacted] there were no apparent external changes at the facility. Electronic-associated vans and probable communication vehicles/vans on the 2 paved rectangular-shaped aprons (Figure 4) have been revealed on [redacted].

## PROBABLE LONG RANGE SAM LAUNCH FACILITY

The Probable Long Range SAM (PLRS) Launch Facility (Figures 3, 7 and 8) is located on the northern side of the western branch of the SAM Launch Complex main service road, between the Precision Tracking Radar Facility and the Research and Development (R & D) Launch Area at approximately 48-48N 45-43E.

Construction activity at the launch facility (formerly designated, in its early stages of development, as an unidentified secured area) 2/ was first observed in [redacted]. The launch facility probably can be negated in [redacted] and definitely in [redacted]. Some ground scarring was observed in the area of the launch facility as early as [redacted] however the scarring was more likely associated with the precision tracking radar facility than with the PLRS launch facility. On [redacted] two buildings were observed under construction (items 8 and 10, Figure 8). The smaller of the 2 buildings, [redacted], appeared externally complete [redacted] while the larger building, [redacted], probably was not externally complete until [redacted].

By [redacted] an area approximately 2,620 by 2,135 feet was secured by a single fence, with construction underway for a second fence, inside and paralleling the one present. By [redacted] the area of the launch facility had practically doubled (approximately 4,650 by 2,135 feet), along with ground scarring that formed a T-

shaped pattern at the western end of the launch facility and a hexagonal-shaped pattern near the southeastern corner.

Photography of [redacted] revealed 4 hardstands under construction along the top of the T-shaped pattern. The hexagonal-shaped pattern, one of its sides being part of the main service road for the launch facility, could be identified as a launch site under construction, with 2 launch positions and a centrally located control area that was occupied by several unidentifiable vehicles/pieces of equipment.

On photography of [redacted] cable scarring was observed extending from the launch site control center to each of the 2 launch positions. A third cable scar extended westward from the launch site control facility 3,365 feet to the southernmost hardstand in the tracking/guidance area where it probably connects with the electronics equipment associated with the engagement radar.

The presence of equipment at the launch site and on the hardstands could be confirmed on photography of [redacted].

[redacted] verified the location of the cable scars observed on [redacted] along with several other cable scars that extend from the 2 smaller hardstands (items 1 and 3, Figure 8) toward the vicinity of the [redacted] building in the radar control center. Probable launchers, 25 feet long, were observed at the 2 launch positions and the V-type rail pattern appeared for the first time at the more northerly launch position (Launch Position 1). An azimuth of [redacted] bisects the V-type rails. The [redacted] azimuth, extended, passes in the proximity of Radar Position 1. Ground scarring, where the V-type rails appeared, was observed on [redacted]. At the tracking/guidance radar facility the 2 larger hardstands are occupied by the PLRS engagement radar, while the smaller 2 hardstands are each occupied by 1 van and 1 probable generator/converter, cable-connected to the radars. Four antenna transport vehicles are collocated adjacent to each of the 2 end hardstands (Figure 7).

Although photography of [redacted] could be classified as having the best interpretability up to that date, no significant external changes, including equipment, could

be observed, except for a small vertical mast of undetermined function that was observed within the secured area just to the northwest of the entranceway.

## R AND D LAUNCH AREA

The Research and Development (R and D) Launch Area (Figures 3, 9, and 10) is at the northern terminus of the SAM Launch Complex main service road at approximately 48-48N 45-44E. The launch area was first observed on photography of [redacted] and cannot be negated. This launch area, which probably was used in developing both the SA-1 and SA-2 systems, consists of 5 launch sites (designated A, C, D, E, and F), an electronic facility (formerly designated Launch Site B), a revetment area, and an R and D YO YO guidance site. The latter, reported separately (page 13), is approximately 8,600 feet south-southwest of Launch Sites A and C. Launch Sites E and F, along with the revetment area, were constructed after [redacted] and can therefore be negated. Former Launch Site B and possibly D have apparently changed function since [redacted]. (For the R and D Launch Area, all item designators without a referenced figure number will be found in Figure 10.)

## LAUNCH SITE A

This site, which was first observed in [redacted] is similar to a 6-position launch segment of an SA-1 herringbone-type launch site (Figures 10 and 15). The segment includes 2 launch roads, each having 3 launch positions with SA-1 missile erector/launchers. Midway between the launch roads is a square-shaped hardstand (item 39, Figure 10) which is probably used as a control center for the segment. In regard to placement and distances to launch positions, the location of this hardstand compares favorably with the control bunkers found at operational SA-1 herringbone-type launch sites. Adjacent to each launch position is a small structure that serves as a probable cable junction box for its erector/launcher. Two circular aprons, contiguous to the northernmost launch road, are apparently associated only with the R and D functions of the SA-1 system, since they are not found at operational SA-1 herringbone-type launch

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sites. The aprons are served by a paved service road which cuts across the segment to link up with the main road entering the R and D launch area. A probable tank, semiburied (item 38), is adjacent to the probable control center. Several other unidentifiable features/structures are within and adjoining the site.

Construction of the site probably was complete when first observed in [REDACTED] but poor quality of photography limited detailed interpretation of the site's components. However, no significant external changes in facilities have occurred since [REDACTED] (For information regarding missiles and/or missile-related equipment observed at Launch Site A see Table 1.)

#### R AND D LAUNCH AREA ELECTRONIC FACILITY (FORMER LAUNCH SITE B)

This site (later facility) (Figure 10) was first observed in [REDACTED] and was either complete or in a late stage of construction. On [REDACTED] the configuration of the site appeared to be circular, with 6 approximately square launch positions at equal intervals along the inside of a hard-surfaced perimeter road (See photo inset, Figure 10). A paved, circular unrevetted guidance apron is centrally located, with a paved road connecting it to the perimeter road. Buried cables extended from the guidance area to each of the launch positions and 4 of the launch positions are interconnected by buried cables. Another buried cable extends from the guidance area to a probable control building (item 31) south of the area's service road. A cylindrical tank (item 32), [REDACTED] in diameter, is adjacent to the entrance of the site's perimeter road.

By [REDACTED] all but 2 of the former launch positions had deteriorated and 3 radar mounds were complete or in a late stage of construction. Two of the mounds are outside the former site's perimeter road and 1 inside the road (items R1, R2, and R3).

By [REDACTED] occupancy of the mounds could be confirmed and the radars identified by type. Since completion of the mounds the configuration of the facility has not changed through [REDACTED] (For information regarding missiles and/or missile-related equipment ob-

served at the R and D Launch Area Electronic Facility and former Launch Site B see Table 2.)

#### LAUNCH SITE C

This site, first observed in [REDACTED] is somewhat similar to a 6-position launch segment of an SA-1 herringbone-type launch site (Figures 10 and 15). It is also similar to Launch Site A in that it has 2 launch (or rib) roads, each with 3 launch positions occupied by SA-1 missile erector/launchers. Midway between the launch roads is an approximately 55-foot-square area that probably is used as the control center for the segment (item 18). A probable tank (item 19) is adjacent to the probable control center. Three circular concrete aprons (items C2, 17 and 21) form a triangular pattern around and approximately equidistant from the probable control center. One of the aprons (item C2) is astride the northernmost launch road and serves as 1 of the 6 launch positions. All 3 of the circular aprons are served by paved service roads. An earth-covered bunker (item 15) is near 1 of the circular aprons. The small objects adjacent to each launch position (in some cases only 1 object) probably are cable junction boxes.

Construction of this site probably was complete when first observed in 1957, but poor quality of photography limited detailed interpretation of the site's components. However, no apparent external changes have occurred from [REDACTED] (For information regarding missiles and/or missile-related equipment observed at Launch Site C see Table 3.)

#### LAUNCH SITE D

This site was first observed in [REDACTED] and does not appear to be designed for testing of any specific/known missile system (Figure 10). It consists of 3 circular paved aprons (items 9, 10, and 14) served by paved service roads. One apron (item 14) has a triangular-shaped parking area adjoining it.

The site contains an earth-covered bunker near an approximately 55-foot-square area (items 13 and 11). The area is similar to the one at Launch Site C. Next to the earth-covered bunker is an unidentified structure (item 12) apparently connected by a buried cable to Launch Site C. The site also contains 2 excavations, somewhat

similar in shape to an SA-2 launch position. These excavations have always appeared unoccupied.

Construction of the site probably was complete when first observed in [REDACTED] but poor quality of photography limited detailed interpretation. However, no apparent external changes have occurred from [REDACTED] through [REDACTED] (For information regarding missiles and/or missile-related equipment observed at Launch Site D see Table 4.)

#### LAUNCH SITE E

This site, first observed on [REDACTED] consists of 2 excavated emplacements (Positions E1 and E2), which resemble SA-2 launch positions, and a revetted guidance area (item 34). Buried cables extended in 1959 from the guidance area to each of the 2 emplacements. Another cable extends from the guidance area back to the former Launch Site B guidance area, a distance of approximately 900 feet. This latter cable scar is the most prominent one visible on [REDACTED] The construction of this site has not progressed since its first observance. There is no defined service road leading to the site, but trackage could be observed in the proximity of the site as recently as [REDACTED] No missiles or related equipment have ever been observed at the site.

#### LAUNCH SITE F

This slightly modified, Type B, SA-3 launch site (Figure 10) was first observed under construction on [REDACTED] It was not present on [REDACTED] On [REDACTED] the site appeared complete but no activity was apparent.

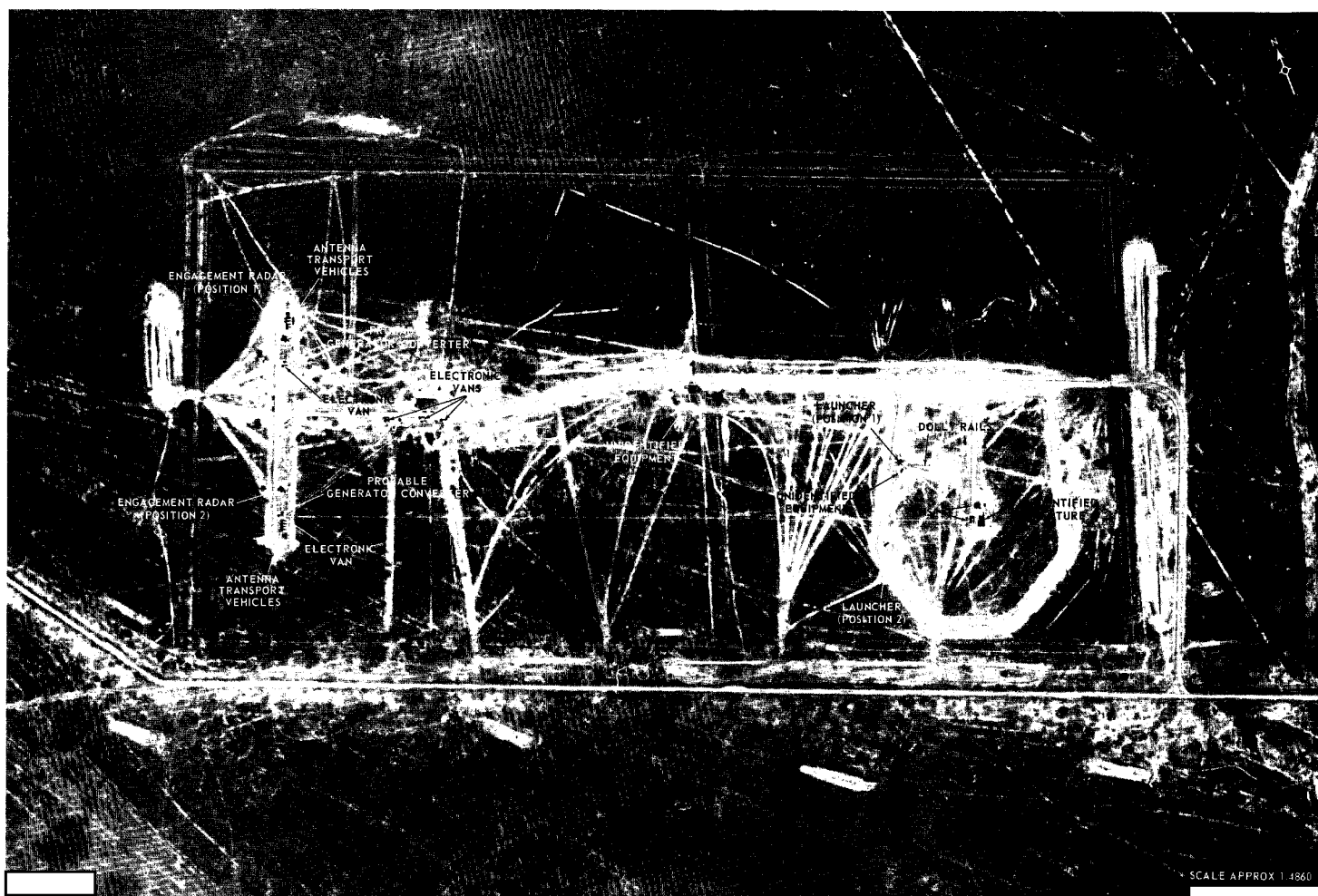
The launch site road pattern consists of a semi-circular paved service road with 4 unrevetted and apparently unpaved launch positions arranged in a sawtooth pattern outside the service road and connected to it by short access roads. A revetted guidance area is in the approximate radial center of the site. A probable control building (item 4) is southwest of the guidance area and adjacent to the service road. Site F is similar in configuration to Launch Site B in the SA-3 launch area (Figure 21).

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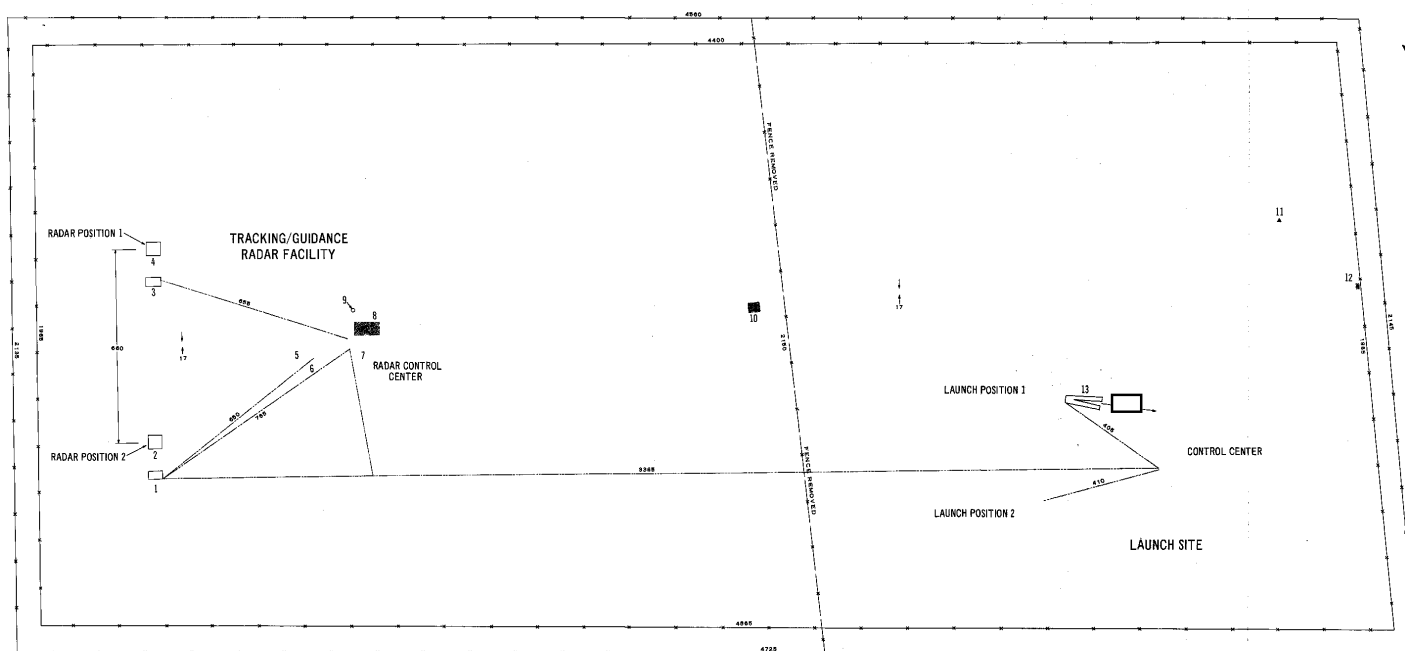
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FIGURE 7. PROBABLE LONG RANGE SAM LAUNCH FACILITY.

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ITEM	DESCRIPTION	DIMENSIONS(FT)	ITEM	DESCRIPTION	DIMENSIONS(FT)
1	PAVED HARSTAND		8	PROBABLE CONTROL BUILDING	
2	PAVED HARSTAND		9	POSSIBLE TANK	UNDET
3	PAVED HARSTAND		10	BUILDING	UNDET
4	PAVED HARSTAND		11	VERTICAL MAST (UNIDENTIFIED FUNCTION)	UNDET
5	PAVED HARSTAND		12	PROBABLE SECURITY BUILDING	UNDET
6	PAVED HARSTAND		13	DOLLY RAILS	UNDET
7	PROBABLE PAVED HARSTAND				

FIGURE 8. PROBABLE LONG RANGE SAM LAUNCH FACILITY.

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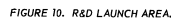
FIGURE 9. R&D LAUNCH AREA.

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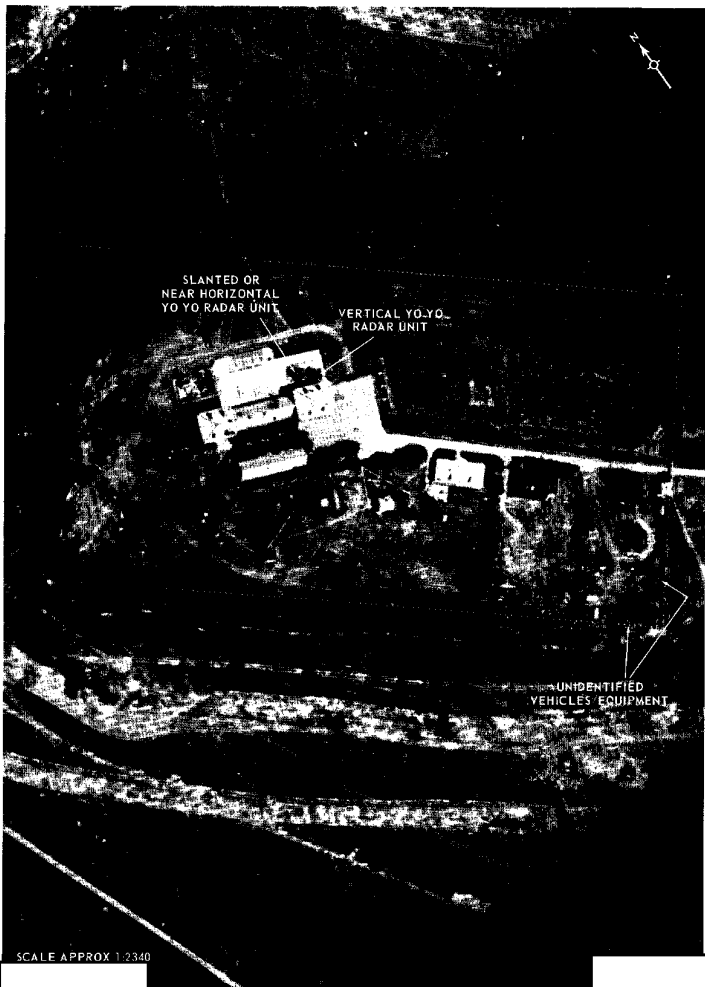


FIGURE 11. R&D YO YO GUIDANCE SITE.

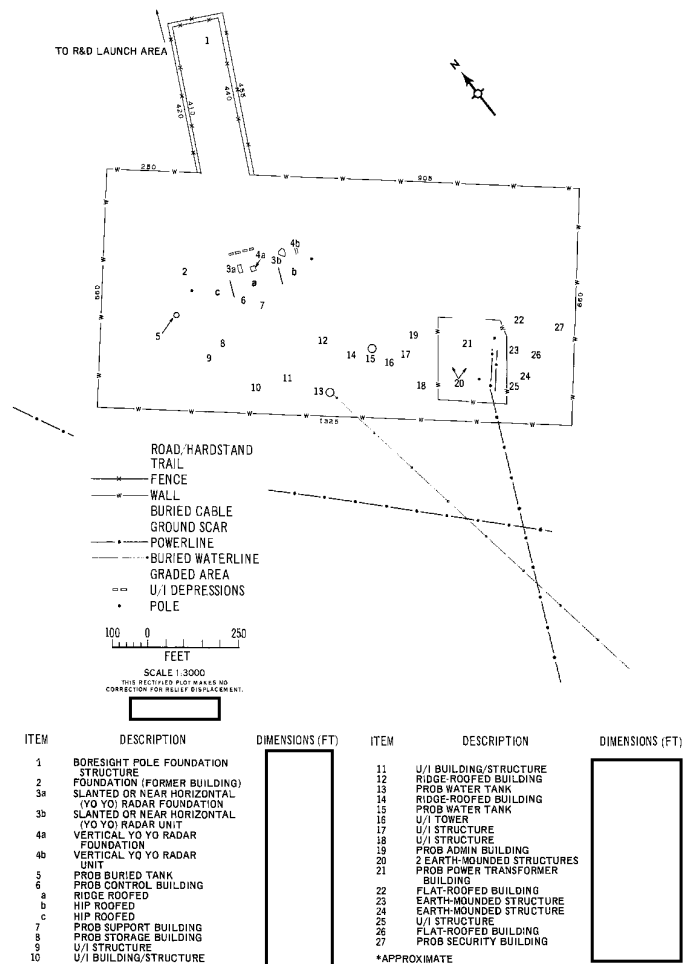


FIGURE 12. R&D YO YO GUIDANCE SITE.

On [ ] a possible earth-mounded tank (item 7) was first observed within the inner-perimeter of the service road. Although the possible tank and several other small structures to the southwest of the site were first observed in [ ] they were probably present in [ ]

A microwave/calibration tower (item 1) southwest of Site F was first observed on [ ] The presence of ground scarring indicates that the tower could have been in an early stage of construction as early as [ ] The tower, approximately [ ] is separately secured inside the R & D Launch Area's security perimeter and appears to be cable connected to

an unidentified structure (item 2) near Launch Site F. Since construction of the tower, no apparent constructional changes have occurred at Launch Site F through [ ] (For information regarding missiles and/or missile-related equipment observed at Launch Site F see Table 5.)

#### REVETMENT AREA

This rectangular-shaped area consists of 2 large, paved, U-shaped revetments served by a paved service road which forms a rectangular pattern. The northern segment of the service road widens to form a paved apron on which 2 buildings (items 22a and b) are constructed. One of these is a drive-through building. The

area was first observed under construction on [ ] but was not identifiable until [ ] From [ ] the area has not undergone any detectable changes. (For information regarding missiles and/or missile-related equipment observed at the revetment area see Table 6.)

#### R AND D YO YO GUIDANCE

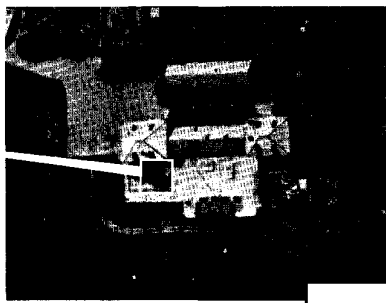
#### SITE 25X125X125X1

The R and D YO YO Guidance Site for the SA-1 system is approximately 8,600 feet south-southwest of the R and D SA-1 Launch Site segments at approximately 48-47N 45-43E (Figures 3, 11, and 12). The site was first observed on photography of [ ] and cannot be negated. It consists of a large dumbbell-shaped control building (item 6), a large paved apron which supports a YO YO radar, approximately 15 additional buildings and structures, several tanks, and a power substation. A boresight pole which could be observed on photography of [ ] near the small structure (item 1) could not be detected on later larger scale coverage.

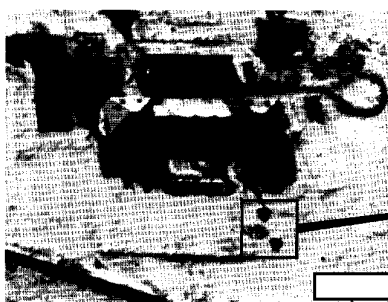
Two foundations (items 3a and 4a) on the paved apron adjacent to the probable control building supported a YO YO radar on [ ] since [ ] revealed that the foundations were unoccupied. A YO YO radar was possibly assembled, or in a stage of assembly, near the eastern end of the paved apron (items 3b and 4b and Figure 13). However, 3 probable YO YO antennas or their hexagonal-shaped outline can be observed on the snow-covered ground immediately north of the paved apron (Figure 13). On [ ] a YO YO radar setup could be confirmed near the eastern end of the paved apron. Although unidentifiable as the YO YO radar on small-scale photography, the eastern end of the paved apron appeared occupied on coverage between [ ]

The main powerline, which formerly terminated at this site, now extends from the main Kapustin Yar substation, immediately northwest of the town of Kapustin Yar, to the Precision Tracking Radar Facility. The powerline possibly was extended to the facility around [ ]

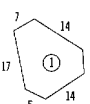
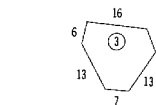
YO YO RADAR ANTENNA



DIMENSIONS IN FEET



PROBABLE YO YO RADAR ANTENNAS



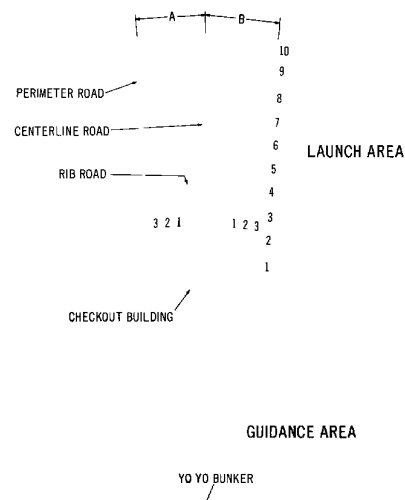
ORDER OF CONFIDENCE  
DIMENSIONS IN FEET

FIGURE 13. YO YO RADAR ANTENNAS AT R&D YO YO GUIDANCE SITE.

~~25x1~~

ITEM	DESCRIPTION	DIMENSIONS (FT)
1	EARTH-MOUNDED STRUCTURE	25 X 20*
2	10 CONTROL BUNKERS	30 X 25
3	POSSIBLE PAVED AREA	10 X 10
4	EARTH-MOUNDED STRUCTURE	20 X 15*
5	POSSIBLE PAVED AREA	10 X 10
6	EARTH-MOUNDED STRUCTURE	20 X 20*
7	EARTH-MOUNDED STRUCTURE	25 X 10*
8	EARTH-MOUNDED STRUCTURE	25 X 10*
9	EARTH-MOUNDED STRUCTURE	15 X 15*
10	EARTH-MOUNDED STRUCTURE	20 X 20*
11	EARTH-MOUNDED STRUCTURE	15 X 15*
12	EARTH-MOUNDED STRUCTURE	20 X 20*
13	EARTH-MOUNDED STRUCTURE	20 X 15*
14	POSSIBLE PAVED AREA	15 X 10
15	EARTH-MOUNDED STRUCTURE	70 X 70*
16	PROBABLE ORANGE BUILDING	85 X 85
17	DRIVE-THROUGH CHECKOUT BUILDING	
18	PROBABLE TANK	
19	PROBABLE BURIED TANK	UNDET
20	PROBABLE SECURITY BUILDING	65 X 35 oa

\*APPROXIMATE



Using the guidance area as a reference point, the left side of the launch area is designated A, the right side B, and the roads as follows: the perimeter road; the centerline road; the rib roads, numbered from the rib road nearest the guidance area. Launch positions on rib roads are numbered out from the centerline road. Thus, activity at 3A2 would indicate a position on the third rib road, left side of the launch area, at the second launch position out from the centerline road, as shown in red.

TYPICAL SA-1 SITE

SCALE APPROX 1:5460

FIGURE 14. SA-1 (HERRINGBONE) LAUNCH SITE.

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25X1

25X1



DISTANCES (FT)

a-b = 215  
b-c = 250  
d-e = 215  
e-f = 250  
a-2 = 325  
b-2 = 245  
c-2 = 350  
d-2 = 325  
e-2 = 245  
f-2 = 350

ROAD/HARDSTAND  
FENCE  
FENCE (APPROX ALIGNMENT)  
PROBABLE BURIED CABLE  
CABLE/GROUND SCAR  
U/I OBJECT  
LAUNCHER  
JUNCTION BOX  
ENTRANCEWAY

100 0 250  
FEET

SCALE 1:3000  
THIS SKETCHED MAP MAKES NO  
CORRECTION FOR RELIEF DISPLACEMENT.

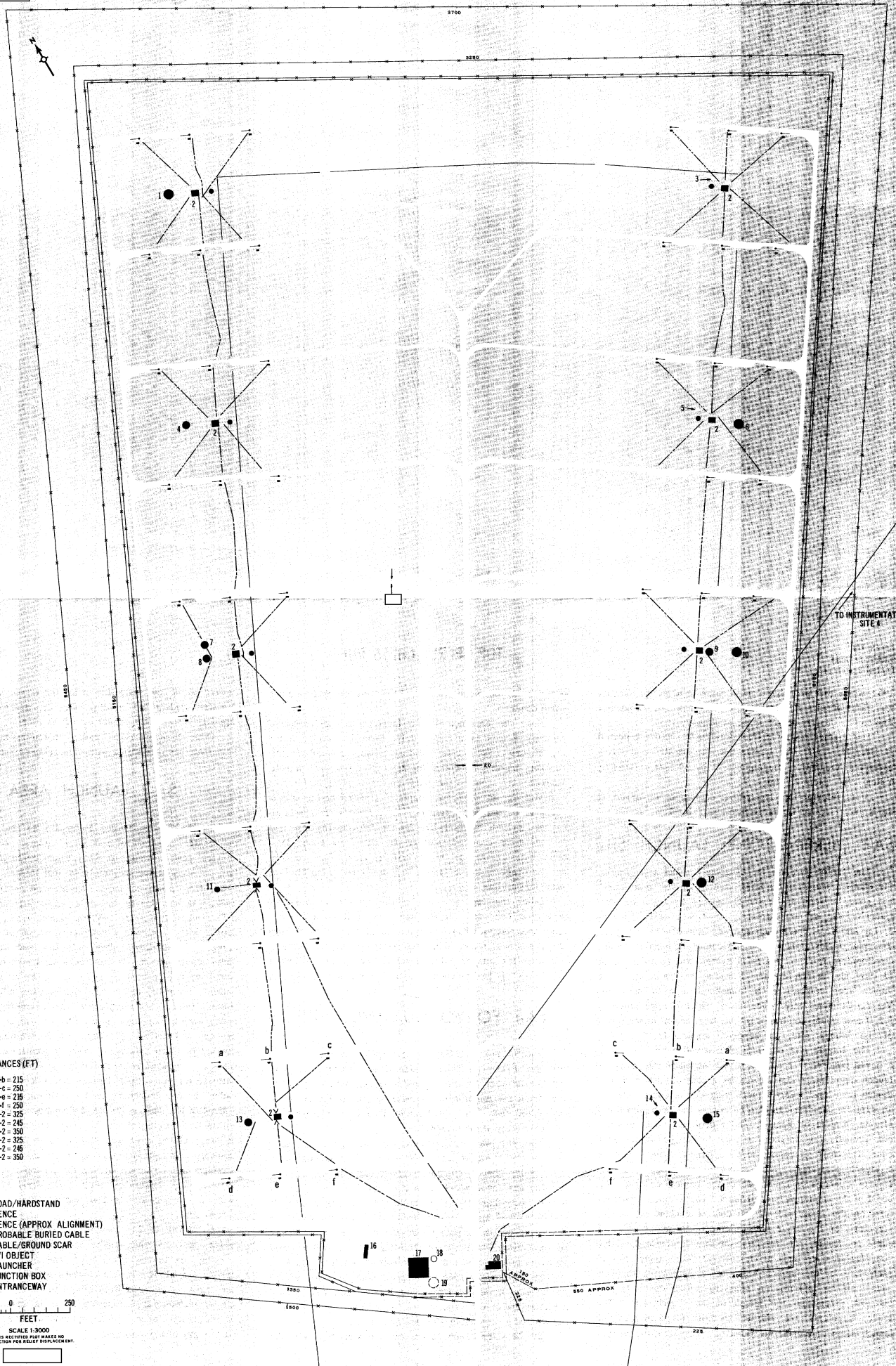


FIGURE 15. SA-1 (HERRINGBONE) LAUNCH SITE.

- 15 -

TOP SECRET

[redacted] when the probable transformer yard at the facility was first observed. However, the extension of the power-line can be clearly observed on [redacted]

The former 80- by 55-foot building/structure reported in PIC/JR - 1008/61 1/ has been dismantled and only a basement foundation measuring [redacted] existed by [redacted] item 2, Figure 12).

(For information regarding equipment observed at the R and D YO YO Guidance Site see Table 7.)

## SA-1 (HERRINGBONE) LAUNCH SITE

The prototype SA-1 (herringbone) launch site is along the eastern branch of the SAM Launch Complex main service road between the R and D Launch Area and the SA-2 Launch Area at approximately 48-47N 45-45E (Figures 3, 14, and 15). The launch site was first observed on photography of [redacted] and cannot be negated. Since development work on the SA-1 system was complete prior to 1959, the launch site has served as a training site. The launch area consists of a launch site and an associated YO YO Guidance Site. The latter, which is approximately 5,270 feet south-southwest of the first set of launch roads of the launch site, is reported separately.

The launch site consists of a paved perimeter road, a paved centerline road, 20 paved launch or rib roads, 10 launch segments, each served by a control bunker, and 60 launch positions. Each launch segment is constructed in an explicit geometrical pattern consisting of 6 launch positions, a control bunker, and a probable cable junction box immediately adjacent to each launch position. Each control bunker is connected by a buried cable to each of 6 launch positions. Also a buried cable connects the 5 control bunkers on each side of the centerline road. All but 1 of the segments have at least 1 earth-mounded structure on the outer side of the control bunker and a small structure on the inner side. Some of these appear to be cable connected, but their function is undetermined. Cable scarring also extends from the YO YO Guidance Site to each half of the launch site thence continuing through each half as intermittent scarring which parallels the bunkers throughout the length of the launch site. The launch segments are similar to those found in the SA-1 launch sites that encircle Moskva, except that the control

bunkers at the Kapustin Yar SA-1 Launch Site are not earth covered.

Near the entrance to the launch site and inside the security fences is a large drive-through building (item 17, Figure 15). This building closely resembles the checkout buildings found at the deployed sites that encircle Moskva. Adjacent to the front entrance of the building is a paved apron. On the southern side of the apron is a probable buried tank (item 19). On the northern side is an exposed cylindrical tank-like structure (item 18) observed for the first time on photography of [redacted]. Two other buildings are in the immediate area. One probably is a storage building (item 16); the other (item 20) is a security building.

Other than the presence of the cylindrical tank-like structure observed on [redacted] and an additional fenceline, the site has undergone no apparent construction changes since it was identified. (For information regarding missiles and/or missile-related equipment observed at the SA-1 [herringbone] Launch Site see Table 8.)

## SA-1 YO YO GUIDANCE SITE

The SA-1 YO YO Guidance Site (Figures 3, 16, and 17) for the Prototype Herringbone (SA-1) Launch Area is south-southwest of the launch site approximately 5,270 feet from the junction of the nearest pair of launch roads and 9,700 feet from the farthest pair of launch roads at approximately 48-46N 45-44E.

The site was first observed on photography of [redacted] and cannot be negated. It consists of a rectangular-shaped control building (item 6, Figure 17), an adjacent apron which supports a YO YO radar (present since [redacted] 9 buildings and structures, 2 earth-covered structures, a buried tank, a partially buried bunker, a boresight pole foundation structure, and 2 areas of excavation. The control building is not earth covered like the ones at the guidance sites that encircle Moskva.

On [redacted] no apparent changes were noticed at the site; however, a feature formerly identified 3/ as a building under construction in [redacted] was redesignated a rectangular-shaped excavation.

By [redacted] an unidentified structure was ob-

served along the fenceline near the entrance (item 13). A small unidentified building/structure that was visible in [redacted] was not apparent by [redacted]

Other than the YO YO radar, no equipment or vehicles have ever been identified within the secured area of the site.

## SA-2 LAUNCH AREA

The SA-2 Launch Area (Figures 3, 18, and 19) is along the eastern branch of the SAM Launch Complex main service road between the SA-1 Launch Site and the SA-3 Launch Area at approximately 48-46N 45-46E. The launch area, first observed under construction on [redacted] was not clearly defined as an SA-2 launch area until [redacted] the launch area (secured by a double fence) included 2 completed launch sites, A and B, along with ancillary sites AA, BB, and launch site E under construction. Within the fenced launch area are 2 paved aprons (items 9 and 14, Figure 19), a security building (item 13), and several unidentified buildings/sheds (items 10-12). Six temporary launch training sites, 3 on each side of the fenced launch sites mentioned above, were present and active. 1/ Three of the training sites were divided into two 3-launcher battery positions. Two sites were unoccupied and the remaining site had one 3-launcher battery set up. Each battery consisted of a FAN SONG radar, 3 SA-2 launchers, and 7 vehicles, making a total of 7 FAN SONG radars, 21 SA-2 launchers, and 49 vehicles within the training sites. Trackage around and in the area of the training sites was visible up to [redacted]. However, no activity was apparent on the small-scale photographic coverage during the period from [redacted] the sites were no longer visible and had not reappeared through [redacted]

[redacted] a rectangular-shaped extension road, which connects the southern side of the branch road serving the launch area, was observed. Three paved aprons are along widened portions of the extension road. The area is secured by a single fence. A building (item 40) of undetermined function is in the southwest corner of the fenced area. No equipment has ever been identified on any of the 3 aprons.

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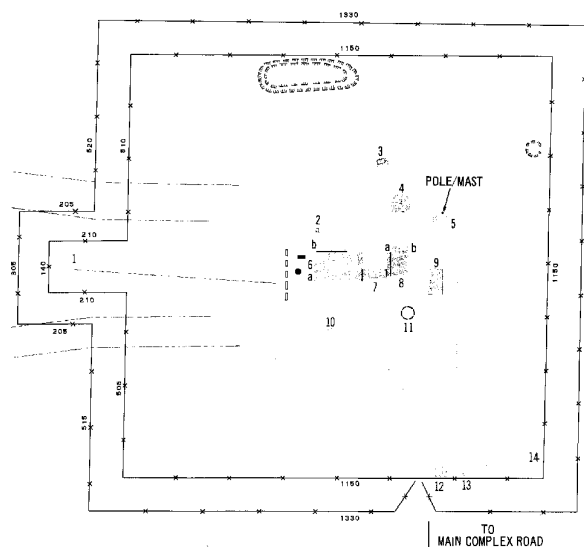
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25X1

25X1



FIGURE 16. SA-1 YO YO GUIDANCE SITE.



ITEM	DESCRIPTION	DIMENSIONS (FT)
1	BORESIGHT POLE FOUNDATION STRUCTURE	
2	EARTH-MOUNDED STRUCTURE	
3	EARTH-MOUNDED STRUCTURE	
4	FLAT-ROOFED BLDG	
5	FLAT OR PITCH-ROOFED BLDG	
6	CONTROL BLDG	
a	RIDGE-ROOFED BLDG	
b	FLAT OR PITCH-ROOFED BLDG	
7	FLAT OR PITCH-ROOFED BLDG	
8		
a	FLAT-ROOFED BLDG	
b	FLAT-ROOFED BLDG	
9	EARTH-BANKED BUNKER	
10	BUILDING	
11	BURIED-TANK	
12	PROBABLE SECURITY BLDG	
13	UNIDENTIFIED STRUCTURE	
14	UNIDENTIFIED STRUCTURE	

\*APPROXIMATE

ROAD/HARDSTAND  
TRAIL  
FENCES  
CABLE SCAR  
EXCAVATION  
U/I DEPRESSIONS  
VERTICAL YO YO RADAR UNIT  
SLANTED OR NEAR HORIZONTAL  
YO YO RADAR UNIT

100 0 250  
FEET

SCALE 1:3000  
THIS REPLICATED PLOT MAKES NO  
CORRECTION FOR TELETYPE DISPLACEMENT.

25X1

FIGURE 17. SA-1 YO YO GUIDANCE SITE.

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TOP SECRET

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5X1

TOP SECRET



On [redacted] the first large-scale coverage of the area since [redacted] photography, a small power substation could be observed just south of the launch area (See Figure 19). An analysis of [redacted] photography revealed that the substation probably was present as early as [redacted]. Although the substation was not present in [redacted] an accurate negation cannot be made on small-scale photography. A powerline connects the substation with the main powerline that parallels the western side of the main SAM launch complex service road. (For the SA-2 Launch Area, all item designators without a referenced figure number are shown in Figure 19.)

#### LAUNCH SITE A

This site (Figure 19), which has a fan-shaped road configuration, consists of 4 revetted and 2 unrevetted launch positions and an elliptical-shaped revetted guidance area. A hip-roofed building (item 22) and a probable water tank (item 21) along with a small possible generator building (item 23) are just to the rear of the guidance area. This latter building appears to be connected to the hip-roofed building by a buried cable. A small unidentifiable structure is adjacent to the possible generator building. To the rear of the hip-roofed building and across the service road are a flat-roofed building (item 25) and 2 small buildings/structures (items 26 and 27) one of which might function as a possible generator building for the flat-roofed building. Cable/ground scars lead from the flat-roofed building toward both the hip-roofed building (item 22) and the probable security building (item 13) near the entrance of the SA-2 Launch Area.

The launch site could be observed under construction on [redacted]. However, it was not until [redacted] that the actual configuration could be observed. At that time the launch site appeared complete. The flat-roofed building was absent in [redacted] and appeared sometime between [redacted] and [redacted]. Ground scarring could be observed in [redacted] and the presence of the building could be confirmed by [redacted]. [redacted] there has been no apparent structural change since the addition of the flat-roofed building in [redacted].

(For information regarding missiles and/or missile-

related equipment observed at Launch Site A see Table 9.)

#### LAUNCH SITE AA

This ancillary site (Figure 19), which appears as a loop-road extension off Launch Site A, consists of 2 paved unrevetted launch positions, a paved unrevetted apron used as the guidance area, a building (item 32), and 3 unidentifiable buildings/structures. Buried cables extend from the paved apron to each of the 2 launch positions.

The site was first observed under construction on [redacted]. Only the loop-road and building were under construction at this date. The remainder of the launch site probably was complete by the time of the next photographic coverage in [redacted] the site could be confirmed as being complete. Through [redacted] there has been no apparent structural change since its confirmed completion date. (For information regarding missiles and/or missile-related equipment observed at Launch Site AA see Table 10.)

#### LAUNCH SITE B

This site (Figure 19), which has a semicircular fan-shaped road configuration, consists of 3 revetted and 3 unrevetted launch positions, a hip-roofed building (item 7), a probable water tank (item 8), and a small possible generator building (item 6), which appears to be connected to the hip-roofed building by a buried cable. The guidance area for the site is along a paved road which joins the 2 end launch positions. Earth excavations paralleling both sides of this road on [redacted] appear to have been filled by [redacted]. Cable/ground scars extend from the guidance area to the hip-roofed building.

This site was first observed under construction on [redacted] but could not be clearly observed until [redacted]. Since then the site has undergone no apparent structural change through [redacted]. (For information regarding missiles and/or missile-related equipment observed at Launch Site B see Table 11.)

#### LAUNCH SITE BB

This ancillary site (Figure 19), which appears as a loop-road extension off Launch Site B, consists of 2 paved unrevetted launch positions, a paved unrevetted

apron that can be utilized as the guidance area, a building (item 4), and 2 unidentified structures. Paved roads or pathways extend from the paved apron to each of the 2 launch positions.

The site was first observed under construction on [redacted]. At that time the launch positions, the paved apron, and the building were under construction. The site, as it exists on photography of [redacted] was probably complete when seen on photographic coverage of [redacted]. However, by [redacted] a firm completion date was established. (For information regarding missiles and/or missile-related equipment observed at Launch Site BB see Table 12.)

#### LAUNCH SITE C

This site (Figure 19) consists of 4 unrevetted, paved launch positions along the inside of a paved semicircular perimeter service road, an unrevetted apron which serves as the site's guidance area, a flat-roofed building (item 35), a possible buried tank (item 36), and 4 small buildings/structures. One of the small buildings/structures (item 38) may serve as a generator building for the flat-roofed building. Buried cables extend from the guidance area toward each of the launch positions.

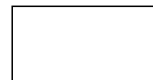
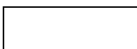
This site could first be observed in a probable stage of construction on [redacted]. Although no activity could be observed on [redacted] the site was probably complete or in a very late stage of construction. Through [redacted] no apparent structural change has occurred since [redacted].

(For information regarding missiles and/or missile-related equipment observed at Launch Site C see Table 13.)

#### LAUNCH SITE D

This site (Figure 19), which appeared similar in size and configuration to Launch Site C, was first observed under construction on [redacted]. The site remained unchanged, giving the appearance that either the site was only a temporary field site or that construction had been discontinued. By [redacted] the site had deteriorated and was overgrown by vegetation. No activity was ever apparent on the small-scale photographic coverage of this site.

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TOP SECRET



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## LAUNCH SITE E

This site (Figure 19), consists of 3 paved unrevetted launch positions and a paved unrevetted apron used as the guidance area. Immediately to the rear of the guidance area is a large hip-roofed building with a dormer on each end (item 15) and 2 smaller buildings (items 16 and 17). Probable buried cables extend from the guidance area toward the launch positions. Additional cable/ground scars can be observed within the area of the site.

This site was first observed under construction on [redacted] at which time only the 2 roads leading from Site A to B, along with an unpaved outline of the hardstand, could be observed. The 3 buildings to the rear of the hardstand were present. The 2 smaller buildings probably are directly associated with Launch Site E, while the larger hip-roofed building is utilized as a central control building for the area.

By [redacted] light tonal areas could be observed on the small-scale photography at the location of the 3 launch positions and the hardstand. At that time the launch positions and hardstand could have been under construction, but probably were complete. Through [redacted] there has been no apparent structural change at the site since its probable completion. (For information regarding missiles and/or missile-related equipment observed at Launch Site E see Table 14.)

## SA-3 LAUNCH AREA

The SA-3 Launch Area (Figures 3, 20, and 21) is at the terminus of the eastern branch of the SAM Launch Complex main service road, at approximately 48-47N 45-48E.

The launch area, which was probably used in developing the SA-3 system, consists of 4 launch sites (A - D), 1 paved and 4 earth-graded parking aprons to the rear of Launch Site B, and 3 earth-covered bunkers west of Site B. An instrumentation/control site, which appears to be cable-connected to possibly 2 of the launch sites, is directly south of the launch area. This site will be discussed in a later report concerning the Kapustin Yar SAM instrumentation sites.

On [redacted] the single-fenced SA-3 Launch Area was first observed and consisted of Launch Sites

A and B, a ridge-roofed security building (item 17, Figure 21), and a rectangular-shaped paved road with a paved apron at the southwest corner. Within the area encompassed by the paved road is a circular buried tank (item 16) and a small building (item 15).

By [redacted] the launch area had expanded to its present-day size with the probable completion of 2 new launch sites, C and D, the 3 earth-covered bunkers west of Launch Site B, and the 4 earth-graded parking aprons. The 2 new launch sites are served by a separate road extending from the branch road and are enclosed by a double fence with a probable security building (item 22) at the entranceway.

(For the SA-3 Launch Area all item designators with-out a referenced figure number are in Figure 21.)

## LAUNCH SITE A

This site (Figure 21) consists of 4 revetted launch positions arranged in a trapezoidal configuration around a large, paved, circular-revetted guidance area. Each launch position is served by a paved T-shaped service road. The revetted launch positions are at 1 end of the "T" bar, leaving the other end of the bar open for the missile transporter to position itself prior to backing into the position for unloading its missiles. Adjacent to the revetted guidance area is a large hip-roofed building (item 26) which probably is utilized as the site control building. Immediately west of the building is a circular tank (item 24). To the rear of the building is a paved apron which probably is used as a missile-hold position. Photography of [redacted] revealed 2 possible buried tanks at this location. However, no evidence of their presence is observed on large-scale coverage of the area from [redacted]. A path/ground scar leads from the paved apron to a small unidentified structure (item 23).

The site was first observed under construction on [redacted] and can be negated on photography of [redacted]. Construction in [redacted] was nearly complete, but some work was still in progress on the roads and the hip-roofed building. Although the site was probably complete by the time of the first [redacted] coverage on [redacted] it can be considered externally complete by [redacted]. Since that date there has been

no apparent structural change through [redacted].  
(For information regarding missiles and/or missile-related equipment observed at Launch Site A see Table 15.)

## LAUNCH SITE B

This site (Figure 21) is the prototype B-configuration SA-3 launch site. The road configuration consists of a semicircular paved service road with 1 revetted and 3 un-revetted launch positions arranged in a sawtooth pattern outside the service road and connected to it by short access roads. A revetted guidance area is in the approximate center of the site. In the center of the guidance area is a tower (item 5) which was first observed on [redacted] and can be negated on photography of [redacted]. A hip-roofed building (item 8) probably utilized as a control building, and 2 smaller buildings/structures are immediately to the rear of the site. A small, cylindrical, tank-like structure (item 9) is behind the site and to the east of the hip-roofed building.

The site was first observed in [redacted] and can be negated in [redacted]. In 1959 the site appeared functional and basically complete except for the guidance area and the 1 revetted launch position which were not yet revetted. Also the cylindrical tank-like structure and the tower (first observed in [redacted] were absent. The guidance area revetment could be observed on [redacted] but the 1 launch position revetment and cylindrical tank-like structure could not be accurately confirmed until large-scale coverage of [redacted].

Except for the erection of the tower between [redacted] and the guidance area revetment construction observed in [redacted] the site has not undergone any significant structural change through [redacted].

(For information regarding missiles and/or missile-related equipment observed at Launch Site B see Table 16.)

## LAUNCH SITE C

This site is similar in appearance to Site B, except that the access roads are arranged in the opposite direction (Figure 21). The road configuration consists of a semi-circular paved service road with 4 paved unrevetted launch positions arranged in a sawtooth pattern outside the service road and connected to it by short access roads. A revetted guidance area is in the approximate radial center of the

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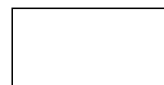
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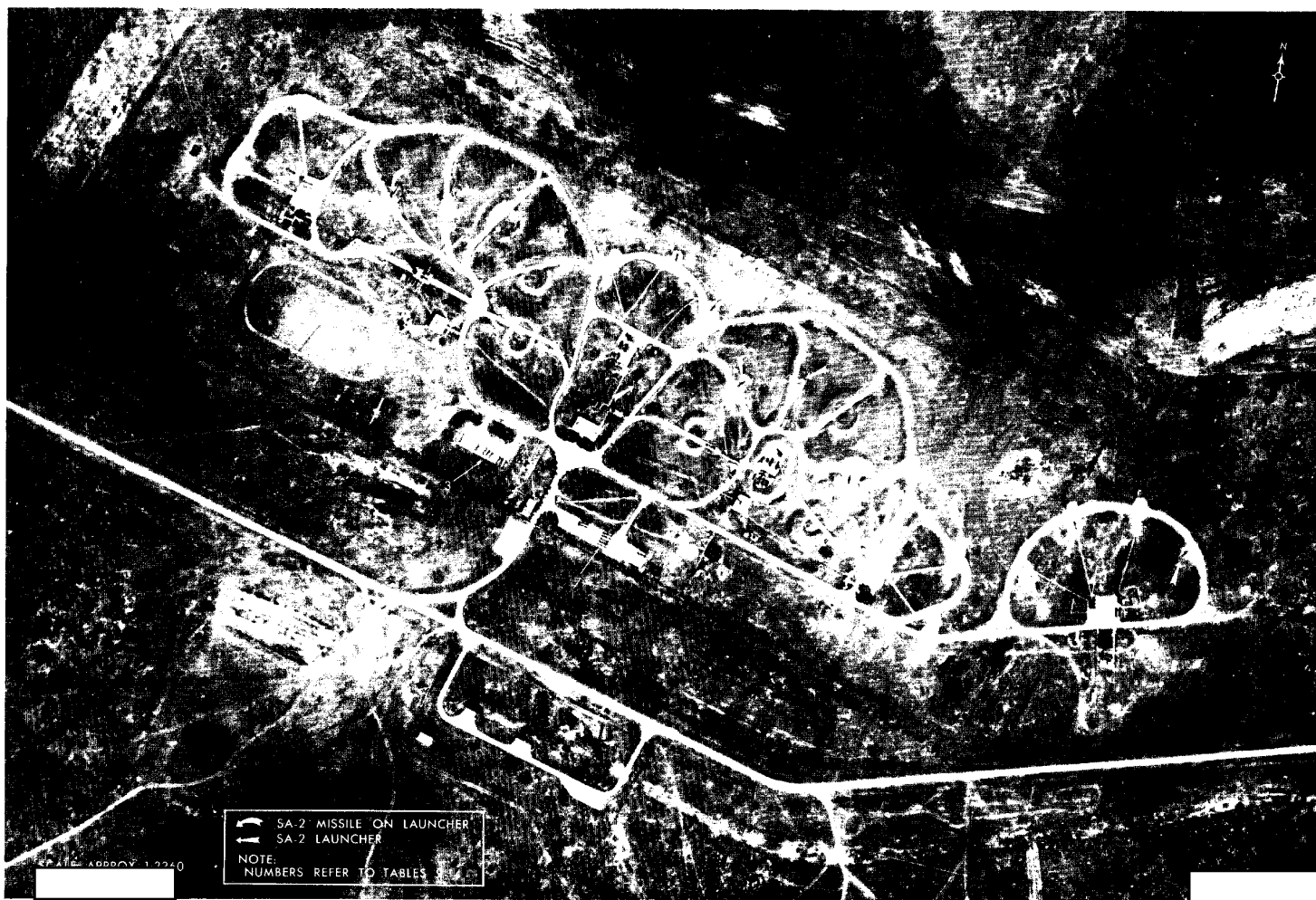


FIGURE 18. SA-2 LAUNCH AREA.

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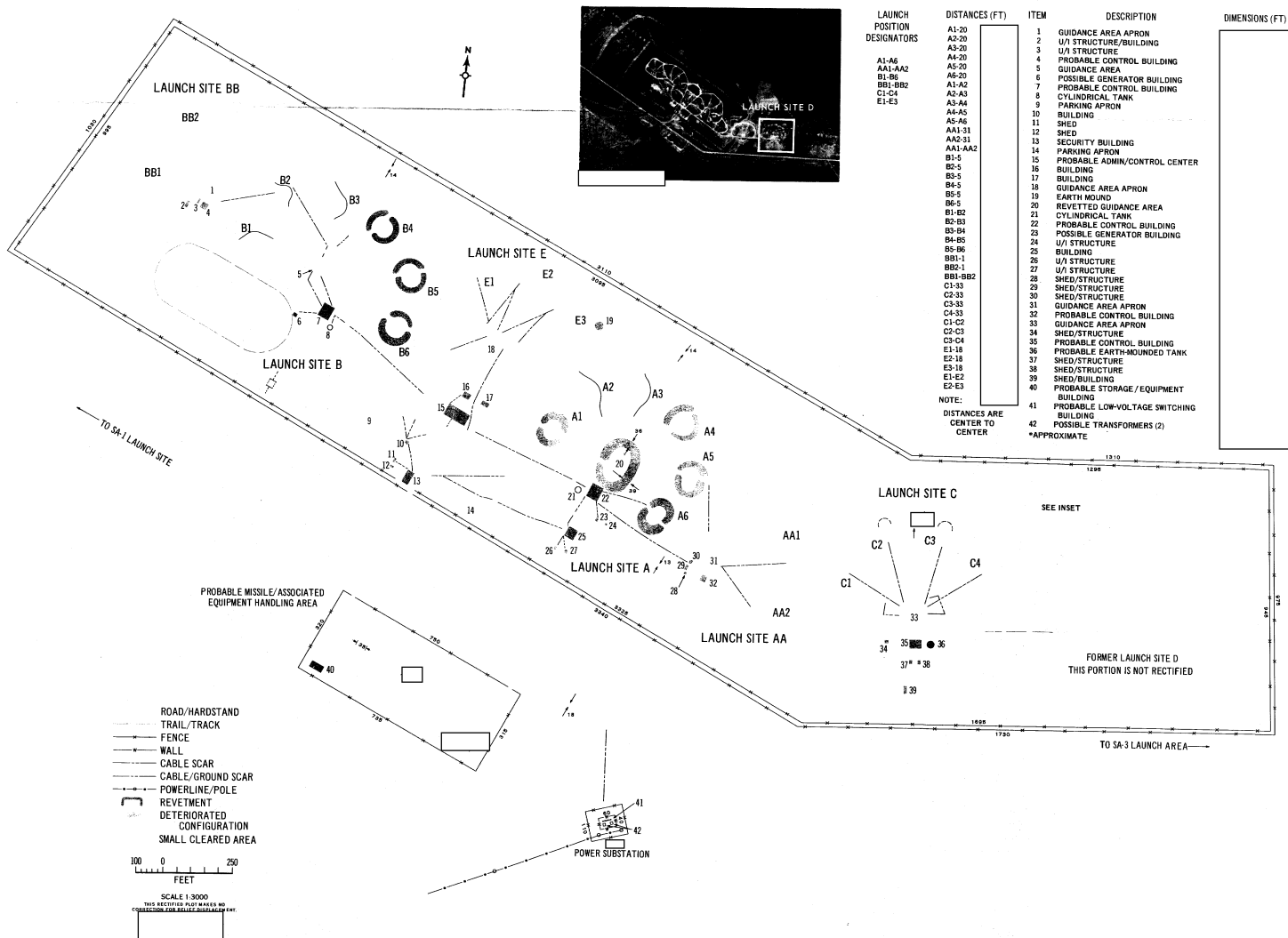


FIGURE 19. SA-2 LAUNCH AREA.

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TOP SECRET  
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25X1



25X1

25X1

FIGURE 20. SA-3 LAUNCH AREA.

- 22 -  
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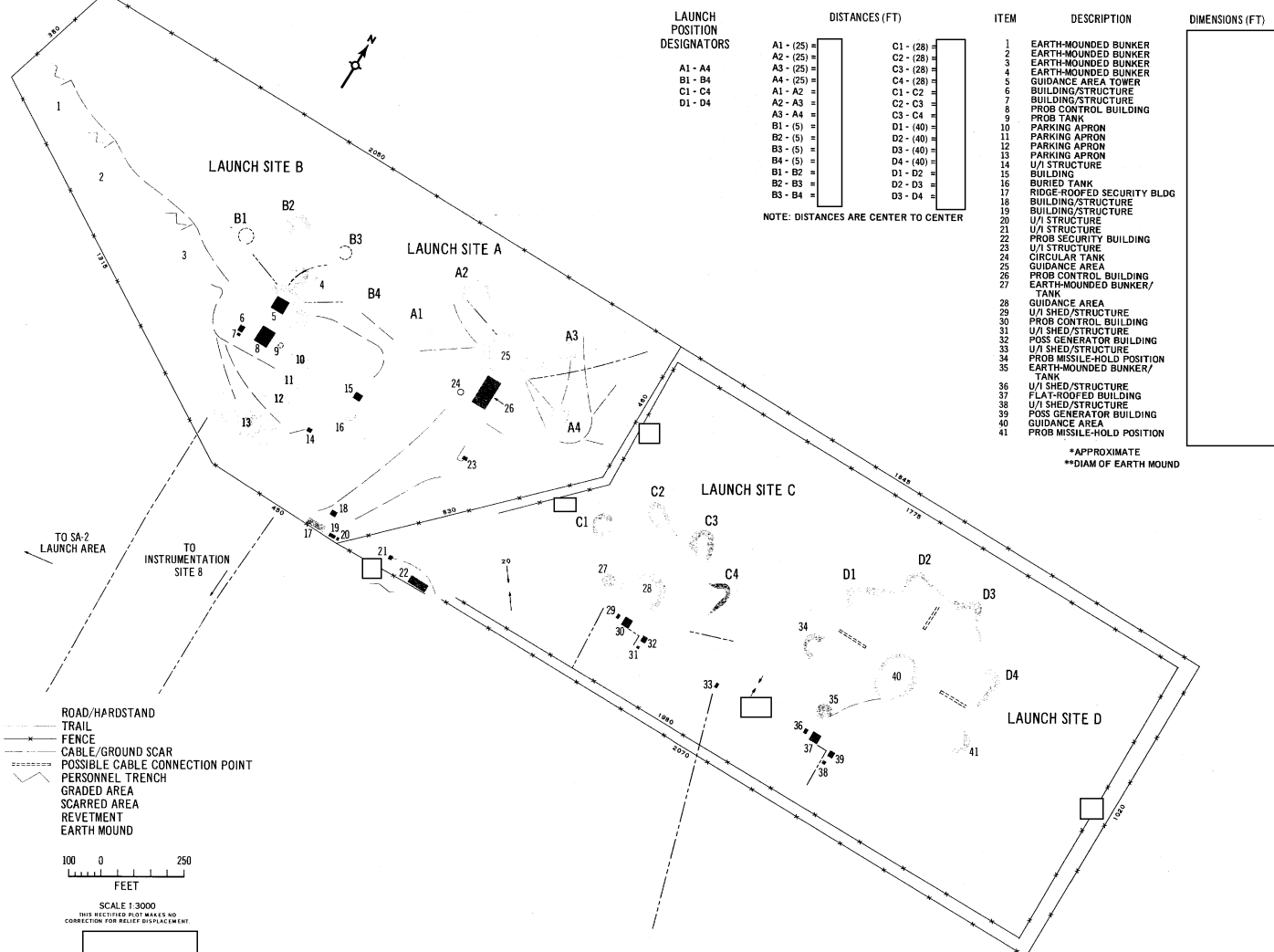


FIGURE 21. SA-3 LAUNCH AREA.

TOP SECRET



site. Adjacent to the guidance area is an earth-mounded bunker/tank (item 27). To the rear of the guidance area are a flat-roofed probable control building (item 30), a possible generator building (item 32), and 2 small unidentified sheds/structures.

Scarring was first observed in the area of the site on [redacted] a faintly discernible semi-circular configuration could be observed in the area of the launch site. The site could have been completed by this date but weather conditions severely limited the interpretability of the entire site. Although no activity was observed, the site appeared structurally complete on the next coverage of the area on [redacted] Since that date, no apparent structural change has occurred at the site through [redacted]

(For information regarding missiles and/or missile-related equipment observed at Launch Site C see Table 17).

#### LAUNCH SITE D

This site (Figure 21) consists of 4 paved unrevetted launch positions and 2 earth-graded probable missile-hold positions arranged along the outside of an approximately circular paved service road. A slightly revetted paved guidance area is in the approximate center of the site and is connected to the service road by a paved access road. Within the southwest quadrant of the site and adjacent to the service road is an earth-mounded bunker/tank (item 35). Across the service road and opposite the earth mound is a flat-roofed building (item 37) similar in size to the building at Launch Site C. To the east of this building is a possible generator building (item 39). Two small unidentified sheds/structures are in the vicinity of the 2 larger buildings.

Construction of the site service road was first observed on photography of [redacted] a faintly discernible outline of the site configuration was observed. The site may have been complete or in a late stage of construction by then, but weather conditions severely limited the interpretability of the entire site. Although no activity was apparent, the site appeared complete on the next coverage of the area on [redacted] Since then no apparent structural change has occurred at the site through [redacted] (For information regarding missiles and/or missile-related equipment observed at Launch Site D see Table 18.)

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#### SAM TRAINING SITE A

SAM Training Site A is 16 nm north-northwest of Kapustin Yar at approximately 48-49N 45-38E (Figures 1, 22, and 23). The site is served by trails or unimproved roads. The configuration of the site consists of 6 earth-graded positions, 2 of which may be utilized as missile hold positions, arranged along the periphery of a nearly circular paved or well improved service road. A possibly paved revetted guidance area is in the approximate center of the site and is connected to the service road by an access road. This site is similar in size and shape to Launch Site D at the SA-3 Launch Area, which was first observed under construction on [redacted]

Training Site A was first observed under construction on [redacted] The scarred area to the north of the site along with the centrally located guidance area and the nearly circular service road were present. [redacted] the guidance area was revetted and construction of the large support building (item 8, Figure 23) along with earth scarring in the area of the later identified fence line was visible. Three launch positions and 1 missile hold position were also discernible along the periphery of the service road. [redacted] four launch and 2 missile hold positions were present. Although poor quality and small-scale of photography did not permit identification of equipment, the guidance area appeared occupied by [redacted]

On [redacted] a revetment (item 7) and scarring in the area of the unidentified building/structure (item 3) were present. By [redacted] which was the first large-scale coverage of the site, the above mentioned features could be confirmed. Except for the absence of 2 earth mounds (items 4 and 5) and the pronounced outline of the 6 earth-graded positions along the periphery of the service road, the site appeared structurally the same on [redacted] as it did on [redacted] The 2 earth mounds appeared in mid-[redacted] and could be confirmed as mounds by late [redacted] By [redacted] the launch and missile hold positions were faintly discernible and appeared to be covered by vegetation.

(For information regarding missiles and/or missile-related equipment observed at SAM Training Site A see Table 19.)

#### SAM TRAINING SITE B

SAM Training Site B is 17.5 nm northwest of Kapustin Yar at approximately 48-49N 45-30E (Figures 1, 24, and 25). The site is served by trails or unimproved roads. The configuration of the site is similar in most respects to the configuration of Training Site A. In the southeast quadrant of the site's secured area are 2 long rectangular-shaped buildings (items 5 and 6, Figure 25), a shed, and an unidentified structure. A revetment (item 3) is immediately west of the site access road. A small unidentified object is within the revetment.

Training Site B was first observed under construction on [redacted] Only the service road and 3 possible launch positions were discernible. The site can be negated on [redacted] the guidance area and 2 support buildings were visible. By [redacted] all of the launch positions were visible. Although the site did not appear occupied in [redacted] it probably was complete or in a very late stage of construction. However, by [redacted] the guidance area appeared occupied, but the occupancy of the launch positions could not be determined because of poor quality and small-scale of photography.

[redacted] the rectangular-shaped earth scarring inside the site service road and the large scarred area (probably used as a sports area) near the entrance, but outside the fenced area, were visible.

The only large-scale photographic coverage of the site was on [redacted] At that time the launch positions appeared unoccupied and somewhat deteriorated by the presence of ground vegetation. However, the guidance area was occupied by a probable FAN SONG radar and 9 electronic-associated vans. No additional vehicles or equipment were observed within the training site.

Since the ground scarring on [redacted] no construction work or change in structures at the site had taken place through [redacted]

#### SAM TRAINING SITE C

SAM Training Site C is 21.5 nm west-northwest of Kapustin Yar at approximately 48-45N 45-16E (Figures 1 and 26). The site is similar, if not identical, to SAM Training Sites A and B. The site is served by trails or

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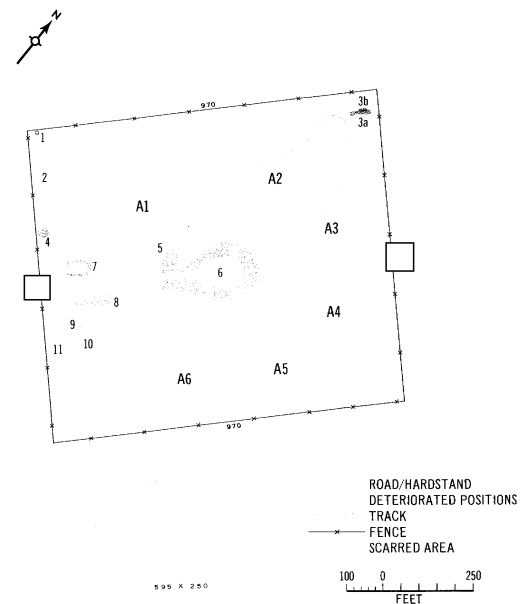
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FIGURE 22. SAM TRAINING SITE A.



ITEM	DESCRIPTION	DIMENSIONS (FT)	DISTANCES (FT)
1	EXCAVATION	<div></div>	A1-6 270
2	SHED		A2-6 270
3a	U/I BUILDING/STRUCTURE		A3-6 290
b	U/I BUILDING/STRUCTURE		A4-6 290
4	EARTH MOUND		A5-6 270
5	EARTH MOUND		A6-6 270
6	GUIDANCE AREA		A1-A2 250
7	REVIEWMENT		A2-A3
8	SUPPORT BUILDING		A3-A4
9	SHED		A4-A5
10	SHED/STRUCTURE		A5-A6 185
11	SHED		
A1-A6	LAUNCH POSITIONS		

NOTE: DISTANCES ARE CENTER TO CENTER

FIGURE 23. SAM TRAINING SITE A.

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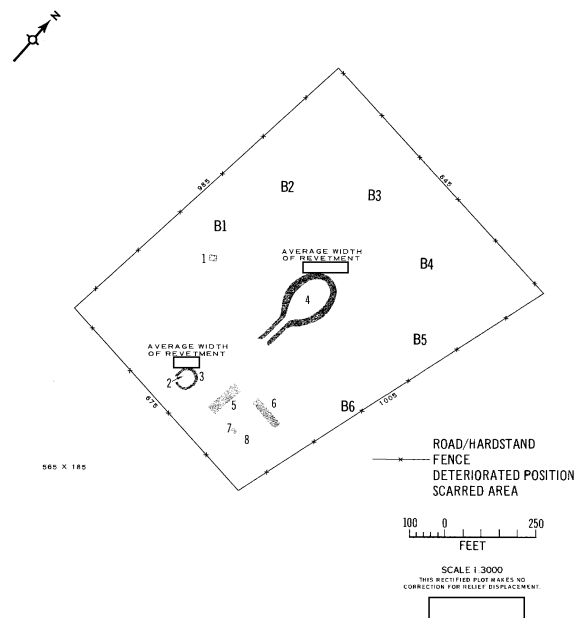
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FIGURE 24. SAM TRAINING SITE B.



ITEM	DESCRIPTION	DIMENSIONS (FT)	DISTANCES (FT)	
1	BASE OF EXCAVATION		B1-4	270
2	U/I OBJECT		B2-4	270
3	REVTMENT		B3-4	295
4	REVTED GUIDANCE AREA		B4-4	295
5	SUPPORT BUILDING		B5-4	270
6	SUPPORT BUILDING		B6-4	270
7	SHED		B1-B2	180
8	U/I STRUCTURE		B2-B3	205
			B3-B4	195
			B4-B5	195
			B5-B6	220

NOTE: DISTANCES ARE CENTER TO CENTER

FIGURE 25. SAM TRAINING SITE B.

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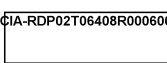
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unimproved roads and is enclosed by a fence. At least 4 earth-graded launch positions and 2 possible hold positions can be observed along the periphery of a nearly circular earth-graded service road. An unrevetted earth-graded or possibly paved guidance area is in the approximate center of the site.

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Training Site C, which can be negated on [redacted] was first observed under construction on [redacted]. At that time it consisted of a service road and 2 possible buildings. The site was not clearly discernible on photography again until [redacted] when it was occupied by equipment in the guidance area. Three buildings were visible in the southeast quadrant of the site area, two of which compare in size and location to the 2 large support buildings at SAM Training Site B. The third building is much smaller.

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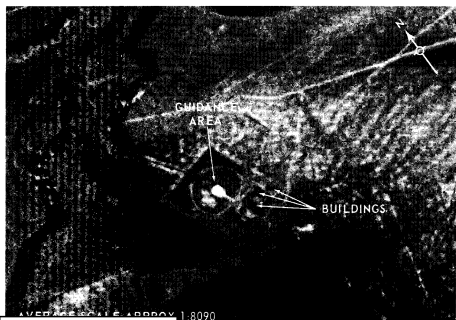
Details are limited at Training Site C, since it has been covered only by [redacted] photography. However, between [redacted] there were no apparent structural changes observed at the site.

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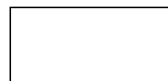
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FIGURE 26. SAM TRAINING SITE C.

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Table 1. R&D Launch Area, Launch Site A\*\*

Six permanently emplaced SA-1 erector/launchers; one occupied by a u/i covered missile. Three u/i vehicles/pieces of equipment on one of the circular aprons. Several u/i objects on the 90-foot-square hardstand.

Six permanently emplaced SA-1 erector/launchers (unoccupied); several u/i objects on the 90-foot-square hardstand.

Because of clouds only 4 of the 6 permanently emplaced SA-1 erector/launchers can be observed and they appear to be unoccupied; 1 u/i vehicle/piece of equipment on the northernmost launch road; the 90-foot-square hardstand appears to be unoccupied.

Six unoccupied permanently emplaced SA-1 erector/launchers; 1 probable cargo-type vehicle and 2 small vehicles on the service road; the 90-foot-square hardstand is unoccupied.

Six permanently emplaced SA-1 erector/launchers (unoccupied); no vehicles or equipment observed.

Table 2. R&D Launch Area Electronic Facility\*\* (Former Launch Site B)

Each of the 6 launch positions occupied by an SA-2 launcher. Two, possibly 3, of the launchers occupied by GUIDELINE missiles. Central guidance area occupied by a FAN SONG guidance radar unit consisting of 4 probable electronic-associated vans, 3 u/i vehicles, 2 probable generator vans, 4 u/i pieces of equipment, and a FAN SONG radar. A FAN SONG radar, 4 probable electronic-associated vans, and 1 u/i vehicle are on the hardstand adjacent to the probable control building. Within the Site B area are 4 scorpion-type launchers, 2 occupied by GUIDELINE missiles.

Radar position R1, occupied by a probable range- and azimuth-type radar; radar position R2, unoccupied; radar position R3, occupied by a probable height finder-type radar; former launch site guidance area occupied by a probable LOW BLOW guidance radar and 10 pieces of support equipment (primarily electronic-associated vans and van trucks). Three probable electronic-associated vans are on a former launch position near radar position R1, and 2 on the position near radar position R3. At least 10 vehicles/pieces of equipment are parked on the hardstand adjacent to the probable control building, south of the former launch site.

Table 2. R&D Launch Area Electronic Facility (Former Launch Site B) (Continued)

Radar position R1, occupied by a probable BAR LOCK radar; 5 vehicles/pieces of equipment on former launch position near radar position R1; radar position R2, unoccupied; former launch site guidance area occupied by a probable LOW BLOW guidance radar and 5 vehicles/pieces of equipment; at least 12 vehicles/pieces of equipment are on the hardstand adjacent to the probable control building. The remainder of the facility is cloud covered.

Radar position R1, occupied by a BAR LOCK radar; 4 probable electronic-associated vans on the former launch position near radar position R1 and 2 vehicles/vans on the perimeter road adjoining the former launch position (photo annotation 7); radar position R2, unoccupied; former launch site guidance area occupied by a LOW BLOW guidance radar and 5 vehicles/pieces of equipment (photo annotation 8); radar position R3, occupied by a probable STONE CAKE radar; 2 probable vans are on the former launch position near radar position R3 (photo annotation 9). Two van trucks and 2 possible generator vans are at the intersection of the perimeter road and the service road that enters from the east (photo annotation 10). Nine vans, 2 cargo-type trucks and 1 u/i vehicle/piece of equipment are on the hardstand adjacent to the probable control building, south of the former launch site (photo annotation 11).

Except for the absence of the 2 cargo-type trucks on the hardstand and the addition of 1 probable electronic-associated van at the former launch site guidance area, the activity at the facility appears the same as seen on [REDACTED]

Table 3. R&D Launch Area, Launch Site C\*\*

Three probable missile transporters on the launch roads; 6 permanently emplaced SA-1 erector/launchers, unoccupied.

An u/i vehicle/piece of equipment (photo annotation 6) on 1 of the circular aprons; 6 permanently emplaced SA-1 erector/launchers, unoccupied.

No apparent change since [REDACTED]

No apparent change since [REDACTED]

No apparent change since [REDACTED]

Table 4. R&D Launch Area, Launch Site D\*\*

Three vehicles/vans and 1 u/i object are on a circular apron (item 9); 1 u/i possible missile is on a circular apron (item 10); and 2 u/i objects are on the triangular-shaped parking apron adjacent to a third circular apron (item 14).

No activity observed.

No activity observed; part of the site is obscured by clouds.

One u/i object is on the 55-foot-square area (item 11)

No activity observed.

Table 5. R&D Launch Area, Launch Site F\*

The guidance area is occupied by 1 probable LOW BLOW radar and at least 3 probable vans; 2 of the 4 launch positions have probable vans parked on their respective access roads, 2 at Position F1 and 4 at Position F2.

The guidance area is occupied by 12 probable electronic-associated vans, 1 probable LOW BLOW radar and 1 possible FAN SONG radar. Two probable electronic-associated vans are parked on the access road entering Launch Position F1.

The guidance area is occupied by 12 probable electronic-associated vans, 1 probable LOW BLOW radar and 1 probable FAN SONG radar. Three vans are parked on the service road (photo annotation 2). Three of the launch positions are occupied; Launch Position F1 has 1 van parked on its access road and 2 probable vans in the launch position; Launch Position F2 has 3 vans parked in the launch position and 5 probable vehicles/vans on the position access road; Launch Position F3 has 2 vans on its access road. Two probable electronic-associated vans/van trucks are parked approximately 300 feet south of the guidance area (photo annotation 3).

The guidance area (photo annotation 1) remains occupied by 12 probable electronic-associated vans, 1 probable LOW BLOW radar and 1 probable FAN SONG radar, possibly a B/C type; 3 vans remain parked on the service road (photo annotation 2). Three of the launch positions are occupied; Launch Position F1 has 1 van parked on its access road and 2 probable vans in the launch position; Launch Position F2 has 3 vans parked in the launch position and 5 probable vehicles/vans on the position access road; Launch Position F3 has 2 vans on its access road. Two probable electronic-associated vans/van trucks are parked approximately 300 feet south of the guidance area (photo annotation 3).

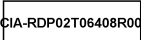
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Table 6. R&D Launch Area, Revetment Area\*



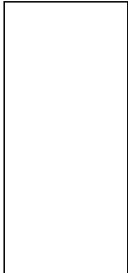
At least 12 u/i pieces of equipment are in the 2 revetments.

Six probable GUILD missiles on semitrailers; 6 u/i suspect missiles probably on dollies; at least 6 sets of bogie wheels; and at least 15 u/i pieces of equipment.

Five probable GUILD missiles on semitrailers; 6 possible GUIDELINE missiles on dollies; at least 6 sets of bogie wheels; and at least 15 u/i pieces of equipment and 1 possible vehicle.

Eight probable GUILD missiles on semitrailers; 6 probable GUIDELINE missiles on dollies; 10 u/i pieces of equipment; and at least 5 sets of bogie wheels and 1 possible vehicle (photo annotations 4 & 5).

Table 7. R&D YO YO Guidance Site\*\*



No activity observed.

Approximately 15 u/i vehicles/pieces of equipment observed in the southeast corner of the site.

Cloud cover over the southeast corner of the site. No vehicles/pieces of equipment observed in the remaining cloud-free portion of the site.

Approximately 21 u/i vehicles/pieces of equipment observed in the southeast corner of the site.

Approximately 19 u/i vehicles/pieces of equipment observed in the southeast corner of the site.

Table 8. SA-1 (herringbone) Launch Site\*\*



A total of 28 probable GUIDELINE (SA-2) missiles on dollies are observed parked along the perimeter road and the first 2 launch roads to the east of the centerline road. A total of 28 probable GUILD (SA-1) missiles, 25 on erector/launchers, and 3 on transporters, are observed throughout the launch area. Five probable unoccupied transporters are on the launch roads near launch positions.

Eleven probable GUILD missiles are on erector/launchers; 8 probable GUILD missiles are on transporters along the launch roads; and 7 prob-

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Table 8. SA-1 (herringbone) Launch Site (Continued)



able transporters, occupancy undetermined, are along the launch roads.

Approximately 75 percent of the launch site is cloud covered. The open portion reveals the presence of 5 GUILD missiles on erector/launchers, 10 GUILD missiles on transporters near the launch positions, and 3 transporters, probably occupied, near the checkout building.

Ten GUILD missiles are on erector/launchers; 15 GUILD missiles are on transporters; 13 SA-1 transporters, possibly occupied, and 3 unoccupied transporters are along the launch roads.

Twelve GUILD missiles are on erector/launchers; 11 GUILD missiles are on transporters; 1 SA-1 transporter, possibly occupied and 7 unoccupied SA-1 transporters are along the launch roads. Two vehicles/pieces of equipment are near the checkout building.

Table 9. SA-2 Launch Area, Launch Site A\*\*



There is no activity at the site. However, adjacent and to the rear of the site within the fenced area are 5 missile transporters and 2 vans on a paved parking apron (item 14, Figure 19).

Three launch positions are occupied by probable SA-2 launchers. The guidance area is occupied by a FAN SONG radar (probably of the B-C type) and 6 electronic-associated vans. At least 10 probable missile transporters (occupancy undetermined) and 7 u/i vehicles/pieces of equipment are on the paved parking apron adjacent and to the rear of the site.

Site is cloud covered.

Two launch positions are occupied (1 by a GUIDELINE missile). The guidance area is occupied by a FAN SONG radar and 11 electronic-associated vans. Three missile transporters, probably occupied, are on 1 of the inner service roads. Eleven missile transporters, 10 occupied by GUIDELINE missiles and 1 unoccupied, are parked on the paved parking apron adjacent and to the rear of the site.

Three launch positions are occupied (1 by a probable GUIDELINE missile). The guidance area is occupied by a FAN SONG radar and 11 electronic-associated vans (photo annotation 5). Five missile transporters and a cargo-type vehicle with an attached generator van are located on

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Table 9. SA-2 Launch Area, Launch Site A (Continued)

Table 10. SA-2 Launch Area, Launch Site AA\*\*



1 of the inner service roads (photo annotation 6). Ten missile transporter semitrailers are on the paved parking apron adjacent and to the rear of the site (photo annotation 7). Five of the semitrailers are occupied by GUIDELINE missiles.

No activity (the site was not complete by this date).

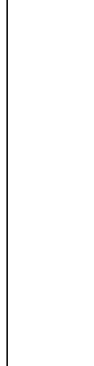
Several u/i vehicles/pieces of equipment are observed on the paved apron used as a guidance area for the site.

Site cloud covered.

One of the 2 launch positions is occupied by a probable SA-2 launcher. The guidance area is occupied by 2 FAN SONG radars and 13 electronic-associated vans.

One u/i vehicle/van is observed on the road entering the guidance area (photo annotation 8).

Table 11. SA-2 Launch Area, Launch Site B\*\*



There is no activity at the site. However, adjacent and to the rear of the site, within the fenced area, are 4 missile transporters and a van on a paved parking apron (item 9, Figure 19).

Four launch positions are occupied by SA-2 launchers. The guidance area is occupied by a probable FAN SONG radar and at least 7 probable electronic-associated vans. A possible FAN SONG radar and 6 probable vans are at the eastern end of the road which passes through the guidance area. Eight u/i vehicles/pieces of equipment and 4 probable vans are on the paved parking apron adjacent and to the rear of the site.

Because of cloud cover only 1 launch position (occupied by an SA-2 launcher) can be observed. At least 3 sets of bogie wheels and 6 u/i vehicles/pieces of equipment are on the paved parking apron adjacent and to the rear of the site.

Three launch positions are occupied by SA-2 launchers. Two of the launchers are occupied by GUIDELINE missiles. The guidance area is occupied by a FAN SONG radar and 7 electronic-associated vans. At least 3 sets of bogie wheels and 7 u/i vehicles/pieces of equipment are on the paved parking apron adjacent and to the rear of the site.

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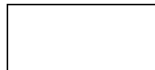
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Table 11. SA-2 Launch Area, Launch Site B (Continued)

Three launch positions are occupied by SA-2 launchers. Two launchers are occupied by GUIDELINE missiles. One probable FAN SONG radar and 7 probable electronic-associated vans are observed in the guidance area (photo annotation 2). The paved parking apron adjacent and to the rear of the site supports 1 probable canvas-covered missile transporter, 3 sets of bogie wheels and 7 u/i vehicles/pieces of equipment (photo annotation 3).

Table 12. SA-2 Launch Area, Launch Site BB\*\*

No activity (the site was not complete by this date).

Three u/i vehicles/pieces of equipment are observed on the paved apron used as the probable guidance area for the site. One launch position is occupied by a probable SA-2 launcher.

The paved apron is occupied by 2 probable canvas-covered missile transporters (occupancy undetermined).

The paved apron is occupied by 3 probable canvas-covered missile transporters (occupancy undetermined).

Three probable canvas-covered missile transporters are on or near the paved apron (photo annotation 1).

Table 13. SA-2 Launch Area, Launch Site C\*

No activity.

Site cloud covered.

Two of the 4 occupied launch positions have GUIDELINE missiles. The guidance area is occupied by 2 FAN SONG radars and 8 electronic-associated vans.

Three launch positions are occupied by SA-2 launchers. The guidance area is occupied by a possible FAN SONG radar and 6 electronic-associated vans (photo annotation 9).

Table 14. SA-2 Launch Area, Launch Site E\*\*

No activity at the site. The area at this time of coverage was not recognized as a site and appeared only as a road link between Launch Sites A and B.

One of the 3 launch positions is occupied by a probable SA-2 launcher. Two probable SA-2 launchers are at 2 of the site's road intersections. A possible FAN SONG radar and at least 8 probable electronic-associated vans are in the guidance area.

Site cloud covered.

One of the 3 launch positions is occupied by a probable GUIDELINE missile on a launcher. Two probable GUIDELINE missiles on launchers are near the intersection of the site's service road and the road leading to the guidance area. A probable FAN SONG radar and at least 10 probable electronic-associated vans are in the guidance area.

Two of the launch positions are occupied, (1 by a probable GUIDELINE missile). Two probable SA-2 launchers are positioned near the guidance area. The guidance area is occupied by a FAN SONG radar and 10 electronic-associated vans (photo annotation 4).

Table 15. SA-3 Launch Area, Launch Site A\*\*

Construction activity only is apparent at this date.

Three of the 4 launch positions are occupied by probable SA-3 launchers. The guidance area is occupied by a probable LOW BLOW radar and at least 4 probable electronic-associated vans.

Three of the 4 launch positions are visible and occupied by probable SA-3 launchers. The guidance area is occupied by at least 4 electronic-associated vans. The remainder of the site is cloud covered.

Two of the 4 launch positions are occupied by SA-3 launchers. One launcher is probably occupied by 2 GOA missiles. The guidance area is occupied by a probable LOW BLOW radar and 3 electronic-associated vans. One possible SA-3 transporter and 2 probable electronic-associated type vans are to the rear of the guidance area.

Table 15. SA-3 Launch Area, Launch Site A (Continued)

Two of the 4 launch positions are occupied, 1 with probable GOA missiles on a launcher and 1 canvas-covered launcher. At least 3 vans and 4 vehicles/pieces of equipment are parked near a third launch position (photo annotation 3). The guidance area is occupied by a probable LOW BLOW radar, and 3 electronic-associated vans (photo annotation 4). Two probable electronic-associated vans are parked to the rear of the site (photo annotation 5).

Table 16. SA-3 Launch Area, Launch Site B\*\*

All 4 launch positions are occupied with some type of equipment. One of the positions is occupied by 2 missile-like objects on a possible launcher. Two of the positions have what could be canvas-covered missile launchers. The fourth position has an unidentified van/piece of equipment parked on it. The guidance area apron is occupied by a possible radar (unidentified) and at least 3 possible vans. To the rear of the site are 6 unidentified vehicles/pieces of equipment on the paved parking apron.

Three of the 4 launch positions are occupied with probable SA-3 launchers. The tower in the guidance area is occupied by a probable LOW BLOW radar. Approximately 20 vehicles/pieces of equipment and 1 possible LOW BLOW radar are on the 1 paved and 4 earth-graded parking aprons to the rear of the site.

Site and parking aprons cloud covered.

Two, and possibly 3 launch positions are occupied by SA-3 launchers. One of the launchers is occupied by 2 probable GOA missiles. The tower in the guidance area is unoccupied, but 2 electronic-associated vans are parked near its base (photo annotation 1). Four launchers, 9 sets of bogie wheels, and 4 vehicles/pieces of equipment are observed on the parking aprons to the rear of the site (photo annotation 2).

All 4 launch positions are occupied by launchers. Three of the launchers are occupied by probable GOA missiles, and 1 is occupied by a possible GOA missile. The tower in the guidance area is unoccupied, but 2 electronic-associated vans are near its base (photo annotation 1). Four launchers, 9 sets of bogie wheels, and 4 vehicles/pieces of equipment are observed on the parking aprons to the rear of the site (photo annotation 2).

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Table 17. SA-3 Launch Area, Launch Site C\*

All 4 launch positions are unoccupied. Guidance area occupied by at least 4 probable electronic-associated vans and a probable LOW BLOW radar.

One of the 4 launch positions is occupied. However, because of cloud shadow the equipment cannot be identified. Probable positioning markers for the launcher and transporter can be observed at each launch position (Figure 20). Guidance area occupied by 4 electronic-associated vans and a probable LOW BLOW radar.

One of the 4 launch positions is occupied by at least 4 unidentified vehicles/pieces of equipment. Probable positioning markers can still be observed at each launch position. Guidance area occupied by a LOW BLOW radar and 5 electronic-associated vans.

Five vehicles/pieces of equipment are observed at 1 of the 4 launch positions (photo annotation 6). The remaining 3 launch positions are unoccupied. The probable positioning markers are still prominent. Guidance area occupied by a LOW BLOW radar and 5 electronic-associated vans (photo annotation 7).

Table 18. SA-3 Launch Area, Launch Site D\*

All 4 launch positions and the 2 probable missile-hold positions are unoccupied. Guidance area is occupied by a possible FAN SONG radar and at least 4 probable electronic-associated vans.

All 4 launch positions and the 2 probable missile-hold positions are unoccupied. Probable positioning markers similar to those observed at Launch Site C are observed at the 4 launch positions. Guidance area is occupied by 7 probable electronic-associated vans and an unidentified probable guidance radar.

All 4 launch positions and the 2 probable missile-hold positions are unoccupied. The probable positioning markers at the 4 launch positions still are prominent. The guidance area is occupied by a probable FAN SONG radar and 7 electronic-associated vans.

The guidance area is occupied by a probable FAN SONG guidance radar and 7 electronic-associated vans (photo annotation 8). The remainder of the site is unoccupied. The probable positioning markers at the 4 launch positions still are prominent.

Table 19. SAM Training Site A\*

Guidance area is occupied by a possible LOW BLOW radar and an undetermined number of probable electronic-associated vans. The 4 launch and 2 missile hold positions are snow covered and appear unoccupied.

Guidance area is occupied by a probable LOW BLOW radar and 11 electronic-associated vans. Two vehicles/vans are observed on the service road. The faintly discernible launch and missile hold positions appear unoccupied.

Guidance area is occupied by a probable FAN SONG radar and 10 electronic-associated vans. No equipment observed in the area of the launch and missile hold positions.

Guidance area is occupied by a FAN SONG radar and 10 electronic-associated vans. Launch and missile hold positions are inactive and barely discernible.

\*Activity confined to

\*\*Activity confined to Missions

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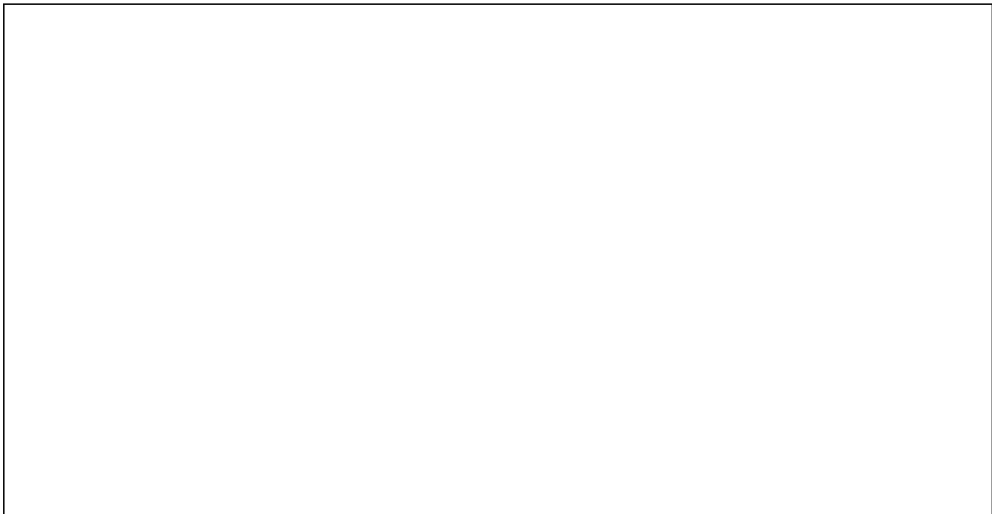
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



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MAPS OR CHARTS

- ACIC chart, scale 1:200,000, Jun 66
- ACIC chart, scale 1:200,000, Apr 64
- AMS map, scale 1:250,000, May 61



DOCUMENTS

- 1. CIA. PIC/JR1008/61, *Surface-to-Air Missile Facilities, Kapustin Yar/Vladimirovka Missile Test Center, USSR*, Mar 61 (SECRET 
- 2. NPIC.  *Probable SAM Launch Area and Unidentified Secured Area, Kapustin Yar/Vladimirovka Missile Test Center, USSR*, May 65 (TOP SECRET 
- 3. NPIC. R-5139/64,  *SAM Launch Complex, Kapustin Yar/Vladimirovka Missile Test Center, USSR*, Sep 64 (TOP SECRET 

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RELATED DOCUMENT

- NPIC. R-126/63, *Surface-to-Air Missile Facilities, Kapustin Yar/Vladimirovka Missile Test Center, USSR, Changes Since*  *Jul 63* (TOP SECRET 

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REQUIREMENT

- CIA. C-D16-83,665

NPIC PROJECT

- 11663/66 (partial answer)

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